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SECOND SERIES: PULMONATA.

MANUAL.

OF

CONCHOLOGY:

STRUCTURAL AND SYSTEMATIC.

WITH ILLUSTRATIONS OF THE SPECIES.

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CONTINUATION BY

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IN THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA.

INDEX TO THE HELICES.

PHILADELPHIA :

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THE following Index includes the genera and species monographed in volumes II, III, IV, V, VI, VII, VIII and IX of this series, with the Heliciform or Zonitoid species of Vol. I. It comprises therefore, part or all of the species of the families *Rhytididæ*, *Streptaxidæ*, *Selenitidæ*, *Zonitidæ*, *Endodontidæ* and *Helicidæ*. In short, the reader may reasonably expect to find herein the names of all Heliciform snails originally described under the loose generic term HELIX, as well as all which have a shell of the contour generally associated with, or suggestive of that name. The references give the volume and page upon which each species is described; and in the case of *Endodontidæ* and *Helicidæ* further reference is given to Volume IX, in which the forms of these families are classified and rearranged.

At the end of this Index will be found a table showing the *dates of publication* of the several parts of the SECOND SERIES of this MANUAL. This is followed by a list of corrections which should be made in volumes II to IX.

This Index may be bound either with Volume IX or as a separate thin volume.

H. A. P.

INDEX TO HELICES.

NOTE.—The names of valid species and varieties, are printed in Roman type; The names of genera and other groups in SMALL CAPITALS; the names of all synonyms, whether specific or generic, are printed in *Italic* type.

- | | |
|---------------------------------------|-------------------------------------|
| Abacoensis Mts. v, 20; ix, 186 | <i>Acarnanica</i> Kob. . ix, 319 |
| <i>Abantisorum</i> Serv. . ix, 288 | <i>Acatergastra</i> Péch. . ix, 307 |
| Abax Montr. i, 116. | ACAVINÆ Pils., IX, xxxii. |
| Abbadiana Bgt. iii, 52; ix, 44 | ACAVUS Montfort, . ix, 153 |
| Abebaia Mab. . ix, 266 | Accedens Hde. . ix, 210 |
| Abebarica Mab. iii, 187. | Accedens Mlldff. . ix, 229 |
| Aberrans Mouss. iii, 246; ix, 252 | Accola Mouss. iii, 14; . ix, 234 |
| <i>Abichiana</i> Bayer, . ix, 319 | Accompsia Bgt. iii, 231; ix, 250 |
| Abietana Bgt. iii, 21; . ix, 47 | Accompsiella Anc. . ix, 250 |
| <i>Abietina</i> Paul. . ix, 341 | Accresens Hde. iv, 61; ix, 210 |
| <i>Abjecta</i> Gld. . ix, 77 | Accurata Mouss. iii, 80; ix, 6 |
| Abjecta Lwe., iv, 39; . ix, 242 | Acela Bgt. . ix, 251 |
| Ablennia Bgt. . ix, 260 | Acentromphala Bgt. . ix, 256 |
| Abludens Loc. . ix, 274 | <i>Acerra</i> Bens. ii, 92. |
| <i>Abnormis</i> Pfr. v, 104; . ix, 89 | Acerra Lewis, ii, 197. |
| Abræa Bgt. . ix, 331 | <i>Acetabulum</i> Pse. . ix, 25 |
| Abrochroa Crse. iii, 91; ix, 6 | Achates Z. iv, 93; . ix, 303 |
| Abrolena Bgt. . ix, 325 | Achatina Ben., iv 207; ix, 331 |
| <i>Abromia</i> Bgt. . ix, 331 | Achatina Gray, iii, 165; ix, 145 |
| Abrupta Mts. . ix, 209 | <i>Achatina</i> P. & M. . ix, 303 |
| Abscondita Phil. ii, 175. | Achilles Braz. ii, 218. |
| Abyssinica Jick. ii, 119. | Achilli Bgt. iii, 105; . ix, 268 |
| Abyssinica Jick. iii, 32; ix, 44 | Acies Partsch. ii, 135. |
| Acaica West. . ix, 272 | Aclerochroa Bgt. iii, 181; |
| Acalles Pfr. ii, 177. | [ix, 273 |
| Acanonica Bgt. . ix, 326 | Acmella Pfr. vii, 18; . ix, 140 |
| ACANTHINULA Beck, . ix, 280 | Acorta L. & B. . ix, 272 |
| Acanthinula Cr. iii, 124; ix, 36 | Acosmeta Bgt. . ix, 251 |
| Acanthinulopsis Sut. viii, 61; | Acosmia Bgt. . ix, 256 |
| [ix, 9 | Acris Bens. iii, 74; . ix, 170 |
| ACANTHOPTYX Ancey, ix, 39. | Acrochordon Oppenh. . ix, 295 |
| <i>Acaria</i> Serv. iv, 84; . ix, 253 | Acropachia Mab. iv, 114; |
| <i>Acarnanica</i> Kob. viii, 220; | [ix, 305 |
| [ix, 303 | <i>Acrosticha</i> Fisch. . ix, 301 |

- Affinior Deb. viii, 166; . ix, 250
 Affinis Blanc. . . ix, 252
Affinis Gm. iv, 117.
 Affinis Paul. iv, 106; . ix, 302
 Afra Pfr. ii, 109.
 Africæ Brown iii, 108; ix, 38
Africana Pfr. ii, 128.
 Agaetana Mab. iv, 163; ix, 327
 Agapeta Bgt. . . ix, 267
 Agaroi Serv. iii, 229.
 Agenna Bgt. . . ix, 326
 Agenora West. . . ix, 261
 Aggarica B. . . ix, 257
 Aggei Heimb. viii, 244; ix, 220
 Aggerivaga Mab. iv, 255;
 [ix, 318.
Aglaja Auct. . . ix, 193
Aglaja Alb. . . ix, 191
 Aglaja Pfr. ii, 94.
 Aglaometa Mab. iii, 237; ix, 258
 Aglypta Dohrn. ii, 127.
 Agna Hag. . . ix, 256
 Agnata Paul. iv, 107; . ix, 302
Agnata Zgl. . . ix, 263
 AGNATHA Moreh, . ix, xxiii.
 Agnewi Cox, iii, 263; ix, 33
 Agnocheilus Smith, viii, 289;
 [ix, 142
 Agona Anc. . . ix, 259
 Agreabilis Zgl. iii, 234; ix, 250
 Agriunensis Kob. . ix, 259
Agræstis Lowe. . . ix, 341
 Agrioica Bgt. iv, 9; . ix, 254
 Ahmarina (B.) Mab. iv, 131;
 [ix, 324
 Aimophila Bgt. iv, 126; ix, 322
 Aimophilopsis Villes, iv 126,
 [ix, 322
Airumia Siem. . . ix, 304
Aitutakiana Mouss. . ix, 29
 Ajax Pfr. . . ix, 222
 Akowtongensis Theob., iv,
 [57; ix, 209
 Akrotirensis Kob. . ix, 250
 Alabastra Péch. . . ix, 307
 Alabastrina Paul. iv, 216;
 [ix, 331
 Alabastrites Mich. iv, 134;
 [ix, 324
 Alata Pfr. . . ix, 36
 Alauda Fér. v, 42; . ix, 182
 Alavana Bgt. . . ix, 256
 Albaiensis Sowb. vii, 132;
 [ix, 222
 Alba Kob. . . ix, 326
 Albanensis Cox, ii, 209; viii,
 pl. 37, f. 43-46, ix, 34, 388
 Albanicus Zgl. ii, 134.
 Albata Blanf. ii, 83; 219.
Albella Dr. . . ix, 259
 Albella Mart. i, 179.
 ALBERSIA H. Adams, . ix, 124
 Albersiana Pfr. v, 17; ix, 186
 Albersi Lwe. iv, 42; ix, 243
 Albersi Mts. ii, 20.
Albersi Pfr. . . ix, 229
Albescens Adami, . . ix, 320
 Albescens Jan. iv, 344; ix, 319
Alberti Brod. . . ix, 227
 Albicans Pfr. ii, 163.
 Albicostis Pfr. iv, 65; ix, 116
 Albida Ad., iii, 218: . ix, 169
 Albida Hemph. . . ix, 200
Albida Hemph. viii, 117, ix, 50
 Albida Jeffr. iii, 53; . ix, 281
 Albida Taylor, . . ix, 34
Albidens Bens. ii, 27.
 Albidorsalis Mouss. . ix, 267
 Albidula Bgt. . . ix, 333
Albilabris Lam. . . ix, 93
Albina Anc. . . ix, 26
 Albina Brancsik, . . ix, 157
Albina West. . . ix, 281
 Albinella Paul. ii, 148.
Albinus Grat. . . ix, 229
 Albizonata Dohrn. ii, 86.
 Albocarinata Smith, vii, 59;
 [ix, 142
Albocincta Binn. . . ix, 68
 Albocincta Ckll. . . ix, 274
 Albocincta Pfr. iii, 86; ix, 4
 Albocinctella Colb. . ix, 254
Albofasciata Hemph. viii,
 [116; ix, 50
Albofilata Mouss. . . ix, 134
 Albolabris Hedl. viii, 289;
 [ix, 142
 Albolabris Say, iii, 150; ix, 76

- Albolineata* Gld. . . ix, 68
Albopicta Mart. ii, 50.
Alboranensis Pfr. iii, 224 ;
 [ix, 337
Alboranensis Webb. & Berth
 [ix, 336
Albostriata Mouss. . . ix, 6
Albozonata Binn. . . ix, 68
Albula Le Guill. . . ix, 141
Albulana (B.) Serv. . . ix, 307
Albula Sterki. . . ix, 283
Albumenoida Cox, ii, 169.
Albus Jeffr. ii, 153.
Alcarazana Guir. iv, 147 ;
 [ix, 325
Alcyone Kob. iv, 134 ; ix, 324
Alderi Gray, ii, 173.
Alexandrae Cox, . . ix, 283
Alexandri Fbs. . . ix, 28
Alexandri Gray, iii, 213 ; ix, 173
Alexandrina Fag. iii, 11 ; ix, 234
Alexandrina Parr. . . ix, 268
Alfieriana Sol. ii, 51.
Alfredi Cox, vii, 12 ; . ix, 140
Algira Chier, . . ix, 262
Algirus L. ii, 134.
Alia West, . . ix, 304
Alibrandi Rig. iii, 238.
Alicea Gupp. iii, 101.
Aliciae Pils. viii, 152 ; . ix, 78
Alicurensis Ben. ii, 145.
Aliena Zieg. . . ix, 44
Alifaensis Paul. iv, 92 ; ix, 301
Aliostoma West. iii, 120 ; ix, 288
Allasteri Cox, vii, 106 ; ix, 220
Allecta Cox, ii, 210.
Alleniana Pva. iv, 45 ; ix, 243
Allerya Bgt. . . ix, 46
Alleryana Cr. ii, 119.
Alleryi Paul. ii, 196.
Alliacea Jeffr. ii, 145.
Alliaria Müll. ii, 145.
Alligans C. B. Ad. iii, 6 ; ix, 64
Alligans Rve. . . ix, 64
Allisteri Pils. . . ix, 220
Allochroida Sut. viii, 63 ; ix, 9
ALLODISCUS Pilsbry, ix, 14
ALLOGNATHUS Pils. ix, 290
ALLOLEMUS Pils. . . ix, 315
Allporti Legr. iii, 263 ; ix, 13
Alluvionum Serv. iii, 251,
 [iv, 19 ; ix, 256
Almae Mlldff. vii, 117 ; . ix, 219
Almonteana F. & C. . . ix, 199
Almonte Tristr. . . ix, 199
Aloagana Jouss. v, 139 ; ix, 94
Alonensis Fér. iv, 146 ; ix, 325
Alpestris Cl. . . ix, 278
Alpestris Sut. viii, 99 ; . ix, 32
Alpestris Z. iv, 118 ; . ix, 307
Alphabucelliana Paul. iii,
 [204 ; ix, 265
Alpha Pfr. . . ix, 30
Alphaea Let. . . ix, 275
Alphonsi Dh. iv, 61 ; . ix, 210
Alpicola Fér. . . ix, 307
Alpicola Stab. iv, 10 ; . ix, 254
Alpicola West, . . ix, 302
Alpina Johnston, . . ix, 34
Alpina F.-B. iv, 100 ; . ix, 302
Alsia Bgt. iii, 177 ; . ix, 273
Alsophila Phil. iv, 78 ; . ix, 198
Alta Pse. iii, 73 ; . ix, 6
Attenana Gartn. . . ix, 267
Atteniana Klees, iii, 175.
Alternata Say, iii, 57 ; . ix, 50
Alticola Mlldff. . . ix, 337
Alticola Nev. . . ix, 250
Altillis Sterki, . . ix, 283
Altispira (Dohrn) Mts., ix, 191
Altispira Pils. . . ix, 78
Aluta Alb. iii, 46.
Alutacea Paul. iv, 206 ; ix, 331
Alutacea West, . . ix, 304
Alutacea Zgl. . . ix, 97
Alveare Pfr. iii, 7 ; . ix, 64
Alveolata Beck, . . ix, 64
Alveolus Gass. ii, 216 ; ix, 33
Alveolus Hde. . . ix, 169
Alveus C. B. Ad. iii, 98 ; ix, 57
Alybensis Kob. iv, 130 ; ix, 324
Amabilis C. B. Ad. . . ix, 89
Amalie Kob. vi, 105 ; . ix, 213
Amalie Mlldff. viii, 245 ; ix, 228
Amancaensis Hid. iii, 22.
Amanda Rm. . . ix, 259

- Amathia* Bgt. . . ix, 302
Amazonica Hupé. . . ix, 167
Amazonica Pfr. v, 186; ix, 167
Amazonicus Dohrn, i, 66
Ambicincta Mart. . . ix, 204
Ambielina Charp., Pal. ix, 257
Ambigua C. B. Ad. iii, 9; ix, 64
Ambigua Gmel. . . ix, 141
Ambigua (Parr) Mss. iv, 244; ix, 319
Ambblasmodon Mab. iv, 179; [ix, 328
Ambliostoma Parr. . . ix, 288
Ambloxa L. & B. . . ix, 257
Amblygonia Reinh. iii, 52; [ix, 44
Amblytropis Sdb. . . ix, 295
Amboinensis Mart. ii, 170.
Amboinensis Mart. . . ix, 119
Ambrosia Ang. vii, 7; . ix, 140
Ambrosia Strobel, . . ix, 303
Ambusta Anc. iii, 229.
Amella Bgt. . . ix, 275
Amela Bgt. ii, 143.
Amethysta Let. & Bgt. ix, 250
Amicta Rve. vii, 133; ix, 222
Amicula Bgt. . . ix, 257
Ammederana L. & B. . . ix, 251
Ammiralis Pfr. vi, 117; ix, 214
Ammonia, Val. ii, 16.
Ammoniformis Orb. i, 65.
Ammonis Schm. iii, 245; ix, 252
AMMONITELLA Cooper, ix, 80
Ammonitoides Braz. . . ix, 35
Ammonitoides Rve. i, 115; [ix, 34
Ammonoceras Pfr. i, 65.
Amoena Pfr. vii, 98; . ix, 215
Amœnula Beck. ii, 115.
Amoma Bgt. . . ix, 250
Amorgia West, . . ix, 303
Amori Hid. v, 183; . ix, 167
AMPELITA Beck, . . ix, 155
Amphibola Bgt. . . ix, 257
Amphiconus Malz. viii, 180; [ix, 259
Amphicyrta Bgt. . . ix, 234
Amphidroma Mart. ii, 33.
- AMPHIDOKA* Albers, . ix, 39
Amphidoxa Hutton, . ix, 17
Amphizona Pils. vii, 5; . ix, 139
Ampla Pfr. . . ix, 68
Ampla Reinh. ii, 178.
Ampecta Gundl. v, 35; ix, 185
Amplexus Brown, . . ix, 282
Ampullarioides Rv. ii, 16.
Amuniensis Mts. . . ix, 248
Amurensis Gerstf. . . ix, 281
Amurensis Sterki, . . ix, 283
Anacardium Dohrn. vi, 238; [ix, 104
Anachoreta W. G. B. . ix, 199
Anadyomene A. & A. vii, [110; ix, 220
Anaglyptica Rv. . . ix, 240
Analogica Pse. iii, 63; . ix, 26
Anaphora West, . . ix, 319
Anasia Bgt. . . ix, 257
Anasina Serv. . . ix, 275
Anatolica Kob. . . ix, 320
Anauniensis de Bett. iv, 105; [ix, 301
Anax Bens. iii, 157; . ix, 148
Anceps Gld. ii, 23.
Anceyana Grt. viii, 96; ix, 26
Anceyia Pils. iii, 102.
Anceyi Bgt. ii, 51.
Anceyi Mlldff. viii, 215; ix, 207
Anchistoma Adams, ix, 69, 284
Anchistoma v. Mart. ix, 93
Anconæ Gent. iv, 106; ix, 302
Anconæ Iss. iii, 192; ix, 265
Anctostoma Mts. iv, 244; ix, 319
Ancylochila Cr. iv, 55; ix, 209
Andalusica Kob. viii, 160; [ix, 254
Andamanensis Try. ii, 93.
Andersoniana Nev. ii, 112.
Andersoni Cless. . . ix, 204
Andersoni Cox, vi, 157; ix, 133
Andersoni W. Blf. iii, 161; [ix, 146
Andicola Pfr. v, 189; . ix, 166
Andium Phil. ii, 207.
Andorrica Bgt. . . ix, 299
Andræi Bttg. ii, 141.

- Andrews W. G. B. iii, 150; [ix, 77
 Andrews W. G. Binn. ii, 198.
 Andria Mts. viii, 186; . ix, 272
 Andromache Pfr. vii, 139; [ix, 222
 Anephela Bgt. . ix, 251
 ANGASELLA A. Ad. . ix, 113
 Angasiana Newc. . ix, 121
 Angasiana Pfr. vi, 180; ix, 131
 Anga-i Tryon ii, 182.
 Angelica Pfr. ii, 108.
 Angigyra Zgl. Rm. iii, 115; [ix, 287
 Angiomphala Streb. ii, 186.
 Angistoma Fér. . ix, 93
 ANGRANDIELLA Anc. . ix, 197
 Angrandi Morel. v, 96; ix, 198
 Anguicula Hupé, v, 180; ix, 166
 Anguiculus Rv. iii, 23; ix, 32
 Anguina Gld. iii, 165; . ix, 145
 Anguispira Morse, . ix, 48
 Angulata Fér. v, 69; . ix, 99
 Angulata Iss. iii, 75; . ix, 170
 Angulata Rm. iv, 23; . ix, 255
 Angulifera Mart. . ix, 180
 Angulosa Mouss. iii, 262; ix, 47
 Angusta Alb., vii, 136; . ix, 222
 Angustata Fér. v, 70; ix, 99
 Angustata Rossm., iv, 147; ix, 325
 Angusticlavina Mart. . ix, 112
 Angusticollis Mart. vi, 7; ix, 147
 Angustispira C. B. Ad. iii, [97; ix, 57
 Angustivoluta Grt. ii, 117.
 Angystoma Dh. . ix, 93
 Angystoma Klein, ix, 69, 286
 Angystropha Bttg. ii, 141.
 Anilis Gabb. iii, 130; . ix, 74
 Animula G.-Aust. ii, 65.
 ANIXA Pilsbry, . ix, 223
 Anne O. Semp. . ix, 222
 Anni Pal. viii, 148; . ix, 288
 Annamitica Cr. & F. ii, 133.
 Annatonensis Pfr. ii, 169.
 Annularis Perry, . ix, 319
 Annulata Case, ii, 203.
 Annulata Sowb., vii, 174; ix, 226
 Annulifera Pfr. . ix, 95
 Annulus Braz. ii, 215.
 Anobrachys Dohrn, ii, 35.
 Anodonta Tschap. . ix, 278
 ANOGLYPTA Martens, . ix, 159
 Anomala Pfr. v, 117; . ix, 90
 Anombra Bgt. iv, 30.
 Anonæ Aust. ii, 100.
 Anonyma West, . ix, 336
 Anopla Anc. viii, 264; . ix, 95
 Anoterodon Péch. iv, 138; ix, 325
 Anozona Mart. . ix, 113
 Anozonata Hedl., viii, 288; [ix, 142
 Antelata Cox, ii, 181.
 Anthoniana C. B. Ad. iii, 96; [ix, 57
 Anthracophila Stache, ix, 295
 Antialba Bedd. viii, 107; ix, 34
 Antigone Oppenh. . ix, 295
 Antipoda H. & J. ii, 214; ix, 13
 Antipodarum Gray, . ix, 228
 Antiqua Ad. & Rv. vii, 28; [ix, 141, 344
 Antiquorum Lch. . ix, 319
 Antoniana Paul, ii, 190.
 Antoniana Roch. iii, 229, iv, 17.
 Antoni Pfr. ii, 166.
 Antonii Semp., ii, 32.
 Antonii Semp., vii, 97; . ix, 215
 Antonii Semp. . ix, 231
 Antrorsa Pfr. vii, 67; . ix, 143
 Anxurina Rig. iii, 238.
 Aorangi Sut. viii, 90; . ix, 28
 Apalista Bgt. ii, 141.
 Apalolena Bgt. iv, 132; ix, 324
 Apennina Chier. . ix, 255
 Apenina Mühl, iii, 202; ix, 266
 Aperta Born, iv, 254; . ix, 318
 Aperta Mlldff. viii, 80; . ix, 47
 Apertus Bk. i, 131.
 Apertus Mart. i, 63.
 Apex C. B. Ad. ii, 202.
 Aphæa Let. iii, 185.
 Aphrodite Pfr. vii, 109; ix, 220
 Apia Jacq. iii, 88; ix, 5
 Apicata Blf. ii, 57.
 Apicina Lam. iv, 5; . ix, 254

- Apiculata* Anc. viii, 95; ix, 25
Apiculiformis Anc. ix, 263
Aplodon Raf. ix, 69
Apломорpha Jonas, viii, 11; [ix, 228
Aplostoma Moq. ii, 10.
Apocryptia Fag. ii, 158.
Apollinis Mts. ix, 252
Apollo Pfr. v, 79; ix, 98
Aporata Bgt. ix, 275
Aporina Silva, ix, 275
Appeliana Mouss. iv, 85; ix, 304
Appelii Kob. iv, 105; ix, 302
Appelinsi Auct. ix, 304
Appendiculata Pfr. vi, 163; [ix, 134
Appenina Stabile, ix, 322
Applanata Mlldff. iv, 59.
Appressa Say, iii, 148; ix, 77
Appressispira Anc. ix, 260
Appropinquata Marts. iii, 82; [ix, 5
Approximata Guill. iii, 90; [ix, 6
Aprica Kr. iii, 107; ix, 38
Aprutitiana Fag. ix, 256
Apuana Iss. iv, 105; ix, 303
Apuana Mab. ix, 266
Apula Blanc. iv, 219; ix, 332
Aquila Cox, i, 172.
Aquila H. Ad. ix, 207
Aquitana Bon. ii, 151.
Arabia Fagot, ii, 158.
Arabica Roth. ix, 335
Arabica Terv. iv, 139; ix, 325
Arachne Morel. ix, 38
Aradasii Piraj. iii, 223; ix, 250
Aranea Behn. ix, 26
*Araneæ*tela Hde. iv, 59; ix, 210
Aranea Parr. iii, 31.
Arangiana Poey. ix, 93
Arata Blf. ii, 23.
Arata Sowb. viii, 267; ix, 104
Arayatensis Semp. i, 184.
Arbana L. & B. ix, 250
Arborea Say, ii, 161.
Arboreoides Ad. ix, 64
Arboretorum Val. ix, 199
Arbusticola Dh. iii, 222, ix, 170
Arbustorum L. iv, 117, ix, 306
Arcadica Parr. ix, 303
Arcasiana C. & D. iii, 206; [ix, 205
Arcasiana Serv. ii, 159.
Arceuthophila Mab. ix, 256
Arceutophila Mab. iv, 30.
Archæzonites Sand. ii, 10.
Archelix Alb. ix, 322
Archimedeæ Ben. ix, 266
Architectonica Braz. ix, 34
Arcinella Lwe. ix, 241
Arcta Lwe. iv, 38; ix, 241
Arctispira Pfr. iii, 47; ix, 41
Arctispira West. ii, 171.
Arctistria Pfr. iv, 82; ix, 181
Arcuata Pfr. viii, 296.
Arcuata (Vitrinoconus) Pfr. iii, [46
Arcuata Zgl. iii, 234; ix, 250
Ardens Anc. iii, 238.
Ardesa, Bgt. ix, 266
Ardouini Dh. ix, 142
Ardua Cox, ii, 181.
Arcibensis Pfr. iii, 58; ix, 58
Arelatensis Loc. ix, 256
Arenaria Oliv. ix, 266
Arenaria Zgl. ix, 263
Arenarum Bgt. ix, 250
Arenosa Z., Rm. ix, 252
Arenicola Lwe. iv, 45; ix, 243
Arenicola Tate, iii, 52; ix, 34
Arenivaga Mab. ix, 249
Areolata Sowb. iii, 228; ix, 200
Arfakiensis Tap. Can. ix, 171
Arga Mab. iv, 17.
Arganica Serv. ix, 256
Argentariolæ Paul., iv, 223; [ix, 332
Argentea Rve. ii, 22.
Argentellei Kob. iv, 94; ix, 303
Argentina Strob. i, 66.
Argia Bgt. iii, 12; ix, 234
Argillacea Fér. iii, 210; ix, 122
Argoderma Bgt. ix, 257
Argoderma L. & B. iv, 19.
Argonautula W. & B. iv, 42; [ix, 259
Arguta Pfr. ii, 45.

- Ariadnæ* Pfr. iii, 132; . ix, 74
Arianensis Bgt. iii, 253; ix, 259
ARIANTA Leach. . ix, 305
Ariantina West. . ix, 256
Arichensis Deb. iv, 137; ix, 324
Aridorum Cox, vi, 266; ix, 122
Ariel Hutt. viii, 59; . ix, 9
Arietina Rossm. . ix, 337
Arigoi Bgt. . ix, 250
Arigonis Rm., iii, 241; . ix, 250
Arionta Mart. . ix, 305
Arionta of Authors; . ix, 193
ARIOPHANTA Desm. ii, 5, 15.
Aristata Kryn. iii, 201; ix, 272
Arista Westerl. . ix, 331
Arkansaënsis Pils. viii, 156; [ix, 76
ARMANDIA Anc. . ix, 205
Armata Stab. . ix, 272
Armeniaca Bay. . ix, 249
Armeniaca Pfr. iv, 86; . ix, 304
Armida Pfr. ii, 46.
Armigera Anc. viii, 155; ix, 76
Armillata Lowe, iv, 15; ix, 254
Armitageana Lwe. iii, 223; [ix, 240
Armoricana Bgt. iii, 242; ix, 250
Arnotti Bens. ii, 87.
Arnusiaca Fag. iv, 17.
Arnusi Serv. . ix, 257
Arpatschaiana Mss. iii, 177; [ix, 266
Arridens Lwe. iv, 40; . ix, 241
Arrosa Gld. iv, 72; . ix, 199
Arrouxi Bgt. iv, 12; . ix, 254
Arrowensis Le Guill, vii, [34; ix, 141
Artara L. & B. . ix, 251
Artensis Souv. ii, 168.
Arthuriana Cox, vi, 159; ix, 134
Arthurii Pfr. iii, 48.
Artificiosa Bens. iii, 33.
Artonilla Hagenm. . ix, 257
Aruensis Tap.-Can., ii, 170; 220
Arundinetorum Hde. iii, 207; [ix, 204
Arusalensis Hagenm. . ix, 305
Arvensis Pini. . ix, 266
Arvensis Kryn. . ix, 322
Arx Bens. ii, 54.
Ascheræ Kob. iv, 210; . ix, 330
Aschersoni Reinh. . ix, 335
Ascoliensis Bgt. . ix, 331
Asemnis Bgt. iv, 245; . ix, 320
Asiatica Nev., viii, 260; ix, 284
Aspasia H. Ad. . ix, 112
ASPASITA West. . ix, 288
Aspera Fér. v, 59; . ix, 97
Aspera Gass. . ix, 325
Asperella Pfr. iv, 62; . ix, 116
Aspersa Müll. iv, 235; . ix, 318
Aspersus Grat. . ix, 231
Asperula Beck. . ix, 97
Aspides Bens. ii, 109.
Aspila Bgt. iii, 239.
Aspirans Blf. ii, 63.
Assamica Aust. ii, 112.
Assarinensis Calc. iii, 51; ix, 47
Assimilaris Gredl. . ix, 204
Assimilis Ad. iv, 48; . ix, 204
Assimilis Braz. . ix, 34
Assimilis Cox, i, 124.
Assimilis Garr. iii, 92; . ix, 6
Associata Z. . ix, 302
Asteia Bgt. . ix, 325
Astenia Mab. . ix, 275
Asteriscus Morse, . ix, 45
Astonara Hagenm. . ix, 257
Asturica Pfr. . ix, 288
Astur Souv. i, 117; . ix, 54
Atacta Pfr. vi, 287; . ix, 112
Ataranensis Theob. i, 179.
Ataranensis Theob. ii, 132.
Atavorum Mab. iv, 131; ix, 324
Atavus Shuttl. v, 110; ix, 90
Ataxiaca Fag. . ix, 275
Athesina Paul. iv, 105; ix, 301
Atiensis Pse. . ix, 35
Atkinsoni Cox, iii, 266; . ix, 34
Atkinsoni Theob. iv, 56; ix, 116
ATLANTICA Ancey, . ix, 50
Atlantica Mor. & Dr. ii, 159.
Atlantidea Morel. iv, 195; [ix, 294
Atlasica Mouss. iv, 134; ix, 324
Atomaria Schum. . ix, 324

- Atomata* Gray. . . ix, 164
Atomata Mke. iv, 21; . ix, 258
Atopa Alb. . . ix, 147
Atramentaria Sh. i, 127.
Atrata Pfr. v, 144; . ix, 94
Atrata Rv. . . ix, 94
Atricolor Aust. ii, 92.
Atrocincta Bgt. . . ix, 319
Atrofusca Alb. ii, 43.
Atrofusca Pfr. vi, 285; . ix, 112
Atrolabiata Kr. iv, 124; ix, 332
Atropos Fér. vi, 20; . ix, 157
Atrorubra Less. ii, 73.
Attasensis Morel. . ix, 255
Attegia Bens. ii, 52.
Attica Bttg. . . ix, 255
Attrita Lwe. iv, 46; . ix, 243
Atypa Bttg. viii, 187; . ix, 266
Auberi Orb. v, 11; . ix, 187
Aubiniana Bgt. . . ix, 204
Aubryana Hde. iv, 60; . ix, 210
Aucapitainiana Bgt. iii, 29.
Aucklandica Le Guill. . ix, 13
Audebardi Pfr. v, 74; . ix, 100
Audeberti Mouss. vi, 67; ix, 153
Audouini Orb. iv, 81. . ix, 198
Augustiana Bgt. . . ix, 257
Auklandica Guill. . ix, 13
Aulacognatha Mörch. . ix, xxiii
Aulacophora Anc. viii, 138; . ix, 38
Aulacopus Pfr. ii, 8.
AULACOSPIRA Mildff. . ix, 279
Aulacospira (Rhytida) Pfr. [iii, 35
Aulica Pfr. ii, 73.
Aulopsis Bens. ii, 215.
Aurantia Mart. ii, 73.
Aurata Sowb. vii, 170; . ix, 221
Aurea Mart. ii, 89.
Aureedensis Braz. viii, 282; [ix, 134
Auricoma Fér. v, 62; . ix, 97
Auriculata Say, iii, 137; ix, 73
Auriculata Swains. . ix, 108
Auriculina Petit. . . ix, 95
Auriformis Bld. iii, 137; ix, 73
Aurigerana Fag. . . ix, 256
Auris Pfr. ii, 16.
Aurita Mart. vi, 281; . ix, 111
Aurora Pfr. vii, 41; . ix, 142
Aurulenta Beck, ii, 124.
Austenianus Nev. i, 175.
Austeni Blf. ii, 23.
Austera West. . . ix, 331
Australis Chem. . . ix, 64
Australis Hutt. i, 126.
Australis Mke. . . ix, 340
Australis Rve. i, 181.
Austriaca Mühl. . . ix, 322
Austrinus Cox, iii, 264; ix, 13
AUSTROCHLORITIS Pilsbry, [ix, 121
Avara Say, iii, 136; . ix, 73
Avarica Serv. . . ix, 273
Avellana Fér. . . ix, 182
Avellana Lwe. iv, 187; . ix, 239
Avenionensis Bgt. . . ix, 257
AVERELLIA Ancey, . ix, 197
Avia West. . . ix, 248
Avus Pfr. vi, 210; . ix, 104
Axia Bgt. . . ix, 324
Axina Alb. . . ix, 223
Axiotheata Bgt. . . ix, 251
Axonana Mab. iii, 185; ix, 275
Ayresiana Newc. iv, 70; ix, 199
Azona Andr. . . ix, 254
Azona Gredl. viii, 158.
Azonata Hedl. viii, 293; ix, 164
Azonata Hedl. viii, 294; ix, 164
Azorella Bgt. . . ix, 326
Azorica Alb. iv, 196; . ix, 293
Azorica Mouss. . . ix, 341
Azpeitia Hid. viii, 199; ix, 280
Babondubii Parr. . ix, 249
Bacca Pfr. vi, 112; . ix, 214
Baccata Hutt. i, 179.
Bacchica Mart. . . ix, 303
Baccueti Bgt. . . ix, 275
Baconi Bens. ii, 59.
Bactriana Hutt. iii, 212; ix, 204
Bactricola Guppy. iii, 55; ix, 57
Badia Fér. v, 86; . ix, 91
Badiella Zgl., Bgt. . ix, 274
Badigerensis Fag. . ix, 256

- Badiocincta* Wiegmu. . ix, 192
BADISTES Gould. . ix, 129
Bætica Rossm. iii, 11; . ix, 234
Bæzensis Hid. i, 64.
Bagoensis Hid. viii, 134; ix, 4
Bahamensis Pfr. v, 18; ix, 186
Baia Mab. iv, 164; . ix, 327
Bailioni Deb. iv, 135; . ix, 324
Bainbridgei Pfr. v, 99; . ix, 89
Bairdi H. Ad., vi, 111; . ix, 214
Bajadera Pfr. ii, 16.
Bajoi (Bgt.) Serv. . ix, 325
Bakonyca Serv. iii, 204; ix, 255
Bakowskyana Cl. viii, 173; ix, 252
Bala Braz. vi, 169; . ix, 134
Baladensis Souv. i, 116; ix, 54
Balanoidea Jonas, viii, 44; ix, 231
Balansai Morl. viii, 218; ix, 124
Balatonica Serv. iii, 31; ix, 44
Balcanica Friv. . ix, 301
Balcombei Cox, vii, 111; ix, 220
Balde isis Villa, iv, 105; ix, 301
Baldwini Anc. . ix, 26
Balearica Ziegl. iv, 148; ix, 325
Balesteriana Lea, ii, 20, 33.
Baliensis Mouss. ii, 81.
Balliana Nev. ii, 54.
Balli Braz. viii, 107; . ix, 33
Balmei P. & M. iii, 30; ix, 47
Balmei Shuttlew. ii, 147.
Balstoni Ang. ii, 34.
Balteata Sowb. vii, 173; ix, 226
Bambusicola Hde. ii, 122.
Banatica Partch, iv, 97; ix, 300
Bandotiana Bgt. . ix, 326
Bankana Mart. ii, 79.
Banksii Cuming, iii, 109; ix, 165
Banneri MacGill. vi, 179; ix, 135
Bantamensis Sm. vii, 84; ix, 170
Baracoensis (Gut.) Poey, v, [67; ix, 97
Barandæ Hid. viii, 40; ix, 230
Barbadensis Lm. . ix, 91
Barbara L. iv, 32; . ix, 264
Barbata Desh. . ix, 288
Barbata Fér. iii, 118; . ix, 288
Barbatula Rve. iii, 95; . ix, 30
Barbella Serv. . ix, 288
Barbigera Redf. iii, 142; ix, 78
Barbosæ Pva. iv, 45; . ix, 243
Barbosella Hde. iv, 55; ix, 209 [275
Barbula Charp. iii, 120; ix, 288
Barceloi Hid. iii, 257; . ix, 259
Barcinensis Bgt. iv, 14; ix, 254
Barcinonensis Fag. . ix, 256
Barckeriana Mab. iv, 157; [ix, 327
Barclayi Bens. ii, 25.
Bardenflehtii B. Villa. . ix, 73
Bardoensis Bgt. iv, 7; . ix, 254
Barffi Grt. . ix, 25
Bargesiana Bgt. iv, 7; . ix, 250
Baria Anc. iii, 238.
Barkasi Liardet, ii, 180.
Barnaclei Smith, vii, 73; ix, 143
Barnardensis Braz. ii, 181.
Barneyana Anc. viii, 183; ix, 259
Barneyi Cox, vi, 165; . ix, 133
Barrakporensis Pfr. ii, 61.
Barrattei L. & B. . ix, 251
Barrenensis Pett. . ix, 34
Bartlettiana Pfr. v, 45; ix, 182
Basalis Dohrn. ii, 35.
Basalis Mouss. . ix, 133
Bascauda Bens. iii, 52.
Baschkira Pfr. . ix, 333
Basidens Mouss. v, 154; ix, 94
Basidentata Pfr. vi, 223; ix, 108
Basilessa Bens. ii, 75.
Basileus Bens. ii, 31.
Basiodon Mrl. ii, 48.
Basizona Mouss. vi, 29; . ix, 157
Baskervillei Pfr. . ix, 76
Basseinensis Blanf. ii, 131.
Bassi Brazier, . ix, 35. [338
Bastidiana Bgt. . ix, 276
Batanica A. & R. vi, 111; ix, 214
Batanica Rve. . ix, 222
Bataviana Busch. ii, 86.
Batchianensis Pfr. iii, 76; ix, 8
Bathmophora Mab. . ix, 104

- Bathurstensis* Smith, . ix, 343
Bathycampa Mab. iv, 157; [ix, 327
Bathyclera Mab. iv, 172; ix, 327
Bathycæle M. & P. viii, 139; [ix, 38
Bathycoma Mab., iv, 153; ix, 327
Bathylæma Bgt. iv, 130; ix, 324
Bathymophora = *bathmophora*.
Bathyomphala Charp, . ix, 252
Bathytera Blanc, iii, 251.
Bathytera Bl. & W. . ix, 252
Bathyteropsis Anc. iii, 251.
Bathyteropsis Serv. . ix, 252
Baudinensis Smith, viii, 286; [ix, 114
Baudini Dh. ii, 80.
Baudoni Petit. ii, 208.
Bavariana West, . ix, 275
Bavayi Crosse, i, 114; . ix, 20
Bayamensis Pfr. v, 64; ix, 97
Bayensis Braz. vi, 166; viii, [282; ix, 134
Bayerii Parr. . ix, 304
Baylei (Lecoq) Moq. . ix, 307
Bazini Cr. i, 121; . ix, 33
Bazzettæ Poll. ii, 220.
Beadlei Pils. viii, 176; . ix, 248
Beata Woll. iii, 123; . ix, 289
Beatricis Tap. Can. vi, 260; [ix, 120
Beatrix Ang. vii, 15; ix, 140
Beaudouini Loc. . ix, 274
Beaumieri Mouss. iv, 149; [ix, 325
Bebias Braz. vi, 175; ix, 134
Becasis Ramb. iii, 176; ix, 273
Beccarii Jick. iii, 189; ix, 268
Beckiana Pfr. iii, 86; ix, 4
Beckianus Pfr. i, 173.
Beddomæ Braz. vi, 174; ix, 134
Beddomei Blf. ii, 38.
Beddomei Braz. viii, 147.
Bednalli Braz. vi, 130; ix, 131
Beguirana Auct. . ix, 324
Beguirensis Deb. iv, 135; ix, 324
Behri Gabb. iii, 134; . ix, 74
Beilanica West. . ix, 319
Belangeri Dh. ii, 80.
Belangeri Rve. ii, 80.
Belcheri Pfr. ii, 207.
Belcheri Pfr. viii, 35; . ix, 230 [344
Belemensis Serv. . ix, 256
Bella Pfr. ii, 68.
Bellardii Mouss. iv, 231; ix, 333
Bellendenkerensis Braz. vi, [161; ix, 134
Bellingenensis Braz. iii, 87.
Bellengerensis Cox, vi, 140; [ix, 131
Belli Cox, iii, 25; . ix, 34
Belloquadrica Mab. iv, 17; [ix, 256
Bellovacina Mab. . ix, 275
Bellucciana Bgt. . ix, 264
Bellula Poey, . ix, 185
Belmorei Cox, iii, 76; . ix, 5
BELOGONA Pils., IX, xxxiii.
BELOGONA EUADENIA, ix, 175
BELOGONA SIPHONADENIA, [ix, 235
Beloni Jouss. . ix, 224
Bembicodes Pfr. vii, 198; ix, 227
Benedicta Kob. iv, 92; . ix, 302
Benguetensis Semp. vii, 96, [ix, 215
Benigna Pfr. iii, 84; . ix, 4
Bennetiana Nev. . ix, 322
Bennetti Braz. vi, 135; ix, 122
Benoiti Caf. iii, 233; . ix, 250
Benoiti Cr. & F. ii, 90.
Benoiti Villa ii, 189.
Bensoni Busch. ii, 23.
Bensoni Pfr. i, 182.
BENSONIA Pfr. ii, 8, 107.
Benthencourtiana Sh. iv, [151; ix, 327
Beraudi Gass. i, 117.
Berbruggeriana Loc. . ix, 275
Berendti Pfr. ii, 204.
Berenice Kob. viii, 185; ix, 261
Berkeleii Lwe. iv, 186; ix, 328
Berlandieriana Moric. iv, [76; ix, 68
Berlieri Cr. iii, 59; . ix, 27

- Berlieri Morl. iii, 236; . ix, 250
 Bermudensis Pfr. iii, 95.
 Bermudia Anc. iii, 267.
 Bernsteinii Mart. . . ix, 112
 Bertelliana Adami. iv, 101.
 Bertheloti Fér. . . ix, 288
 Bertheloti Lwe. . . ix, 258
 Bertheri Bgt. . . ix, 324
 Bertholdiana Pfr. iii, 102; [ix, 341
 Bertina Bgt. . . ix, 251
 Bertiniana Canef. iii, 78.
 Berytensis Fér. iii, 194; ix, 266
 Besckei Dkr. ii, 165.
 Beta Pfr. . . ix, 30
 Beta Pfr.=globosa Sut. ix, 33
 Betsileoensis Ang. vi, 61; ix, 152
 Bevani Braz. viii, 292; ix, 141
 Bewsheri Ad. ii, 25.
 Bewsheriana Morel. ii, 21.
 Bhamoensis Nev. iv, 54; ix, 209
 Bianca Hutt. viii, 97; ix, 32
 Bianconii Dh. iii, 32; ix, 47
 Biangulata Pfr. ii, 46.
 Biangulosa Mts. iii, 178; ix, 259
 Bibanensis Anc. . . ix, 260
 Bicallosa Friv. iii, 171; ix, 279
 Bicallosula Hde. . . ix, 287
 Bicarinata Semp. ii, 46.
 Bicarinata Sowb. iv, 33; ix, 242
 Bicarinatus Semp. i, 174.
 Biciliata Pfr. ii, 67.
 Bicineta Ben. . . ix, 266
 Bicineta Dub. iv, 250; ix, 320
 Bicineta Mke. v, 49; . ix, 180
 Bicineta Pfr. iv, 75; . ix, 191
 Bicingulata Bttg. . . ix, 304
 Bicingulata Smith, vi, 63; [ix, 152
 Bicolorata Lea, vii, 199; ix, 227
 Bicolor Beck i, 174.
 Bicolor Hemp. viii, 118; ix, 50
 Bicolor Lam. ii, 24.
 Bicolor Lwe. . . ix, 240
 Bicolor Marts. iii, 82; . ix, 5
 Bicolor Pfr. ii, 29.
 Biconcava Hde. iii, 117; ix, 287
 Biconcava Pfr. i, 130; viii, 104. [ix, 32
 Biconvexa Mart. vi, 281; ix, 111
 Bicostata Pfr. ii, 199.
 Bicurris Pfr. iii, 136; . ix, 74
 Bidentalis Lam. . . ix, 327
 Bidentata Dkr. . . ix, 254
 Bidentata Gm. . . ix, 279
 Bidenticulata Bens. iii, 69.
 Bidentifera Phillips, . ix, 288
 Bidens Chemn. iii, 170; ix, 279
 Bidinensis Caf. iii, 189; ix, 272
 Bidwilli Cox (Bul.), . ix, 141
 Bidwilli Pfr. vii, 55; . ix, 142
 Bielzi Schm. . . ix, 278
 Bifaria West., . . ix, 272
 Bifasciata Burrow, v, 129; [ix, 190
 Bifasciata Gmel. . . ix, 141
 Bifasciata Lea, . . ix, 215
 Bifilaris Dohrn, ii, 52.
 Bifilaris Hde. ii, 218.
 Biforis Hde. iii, 166; . ix, 145
 Biformis Beck, . . ix, 276
 Bifoveata Bens. vi, 245; ix, 124
 Bifrons Lowe ii, 205.
 Bifurcata Desh. v, 170; ix, 95
 Bigonia Fér. vi, 226; ix, 109
 Bigoti Crosse, ii, 128.
 Bigsbyi Tryon, . . ix, 116
 Bijuga Stöl. ii, 22.
 Bilabiata Oliv, . . ix, 287
 Bilamellata Pfr. . . ix, 23
 Bilamellata Sowb. viii, 91; [ix, 28
 Bilaticincta Mart. . . ix, 204
 Bilineata Aust. ii, 102.
 Bilineata Pfr. ii, 187.
 Bilirata Blf. ii, 56.
 Bilirata Gredl. ii, 56.
 Billeana Hde. iii, 209; ix, 204
 Billeana Mörch, iii, 84; ix, 4
 Billeheusti Cr. & Fisch., ii, 177.
 Bilottiana L. & B. . . ix, 250
 Bimaensis Mouss. ii, 71.
 Binarginata Gray, . . ix, 266
 Binaria Pfr. iii, 61; . ix, 25

- Binneyana Morse ii, 162, 201.
 Binneyana Pfr. iii, 48; ix, 41
 Binneyi Hemph. viii, 116;
 [ix, 50
 Binodata Mlldff. iii, 124; ix, 287
 Binominata Tryon, iii, 146;
 [ix, 76
 Bintuanensis Hid. vi, 237;
 [ix, 104
 Bintuanensis Hid. viii, 134;
 [ix, 4
 Biocheana Crosse, . ix, 140
 Biomphala Pfr. vi, 244; ix, 119
 Bipartita Fér. vi, 126; ix, 132
 Bipartita Pils. vii, 201; ix, 227
 Bipartita Woll. iv, 40; ix, 241
 Biplicata Sowb. viii, 92; ix, 28
 Biretracta Mouss. ii, 208; ix, 34
 Birmana Pfr. ii, 92.
 Birmanicus Phil. i, 177.
 Birta Let. & Bgt. . ix, 251
 Bisbieincta Mart. . ix, 204
 Biscalpta Hde. vi, 9; . ix, 290
 Bischoffensis Bedd. viii, 109;
 [ix, 34
 Bisculpta Bens. iii, 105; ix, 38
 Bislingensis Semp. ii, 105.
 Bistrialis Beck, ii, 83.
 Bisulcata Pfr. iii, 87.
 Bitæniata Cox, vi, 144; ix, 131
 Bitæniata Mlldff. viii, 221;
 [ix, 204
 Bituberculata Fér. . ix, 288
 Bituberculata Pfr. v, 154;
 [ix, 94
 Bituberculata Rv. . ix, 94
 Bituminosa Mab. iv, 184; ix, 328
 Bizona Gredl. . ix, 170
 Bizona Mart. . ix, 192
 Bizona Rossm. iv, 106; ix, 301
 Bizonalis Desh. v, 127; ix, 93
 Bizonalis Grat. . ix, 182
 Bizonia H. & A. Ad. . ix, 109
 Blackalli Braz. vi, 264; ix, 122
 Blackmani Cox, vi, 137; ix, 122
 Blainvilleana Lea, ii, 44.
 Blainvillei Le Guill, vii, 25;
 [ix, 141
 Blakeana Newc. vi, 306.
 Blakeana Tate ii, 166.
 Blakei Kob. vi, 306.
 Blanchetiana Moric. . ix, 190
 Blanci Bgt. . ix, 326
 Blanci Poll. viii, 150; . ix, 287
 Blanda Cox, vii, 21; . ix, 140
 Blandi Hemph. . ix, 76
 Blandi Weinl. iii, 8; ii, 199;
 [ix, 65
 Blandiana Ad. v, 41; . ix, 183
 Blanfordiana H. Ad. vii,
 [26; . ix, 141
 Blanfordi H. Ad. . ix, 141
 Blanfordi Theob. ii, 129.
 Blasi Serv. . ix, 256
 Blauneri Shuttlew. ii, 149.
 Bleicheri Palad. iv, 132; ix, 324
 Blidahensis Bgt. ii, 153.
 Blomfieldi Cox, vi, 154; ix, 133
 Blondiana Bgt. ii, 158.
 Blossura L. & B. . ix, 250
 Boa Hupé, . ix, 166
 Bocageana Cr. vi, 112; ix, 200
 Bocagei Paiva, . ix, 294
 Boettgeriana Mlldff. vii, 181;
 [ix, 225
 Boettgeri Hilb, i, 253.
 Boettgeri Kob. iv, 211; ix, 330
 Boettgeri Mlldff. viii, 134;
 [ix, 4
 Boetzkesi Mill. . ix, 167
 Bofilliana Fag. . ix, 275
 Boghariensis Deb. iv, 129;
 [ix, 324
 Bogotensis Pfr. v, 176; ix, 96
 Boholensis Brod. viii, 26; ix, 229
 Boholensis Pfr. ii, 46.
 Boholensis Semper, . ix, 337
 Boissieri Charp. iii, 14; ix, 234
 Boissieria M. T. . ix, 307
 Boissy Terv. iii, 254; . ix, 259
 Boivini Petit, vii, 6; . ix, 140
 Bollei Alb. iv, 194; . ix, 294
 Bollenensis Loc. viii, 170;
 Bombax Bens. i, 66. [ix, 250
 Bombayana Grat. ii, 80.
 Bombycina Pfr. i, 252.

- Bonaldai Adami, . . ix, 252
 Bonduelliana Bgt. iv, 140 ;
 [ix, 325
 Bononiensis Stef. . . ix, 252
 Bonplandi Lam. iv, 82 ; ix, 181
 Boothiana Pfr. iii, 97 ; . ix, 58
 Boraborensis Grt. iii, 66 ; ix, 26
Boraborensis Pse. . ix, 26
 Borbonica Dh. iii, 206 ; ix, 205
 Bordaensis Ang. vi, 192 ; ix, 129
 Borealis Cless. ii, 172.
Borealis Hde. . . ix, 171
 Borealis Mlldff. viii, 119, 133 ;
 [ix, 4
 Borneensis Pfr. i, 178.
 Borneensis Pfr. ii, 29.
 Bornii Pfr. v, 127 ; . ix, 93
Bortana Serv. . . ix, 253
 Boryana Morel. ii, 218.
 Boscæ Hid. iii, 118 ; . ix, 288
Bosciana Fér. . . ix, 190
 Bosnensis Kob. iv, 88 ; ix, 300
 Bosnensis Mlldff. . . ix, 278
 Bosniaca Bttg. iii, 115 ; ix, 287
Bosnica Bgt. viii, 231.
 Botteri Parr. ii, 139.
 Boucardi Ang. . . ix, 191
 Boucourti Morel. ii, 89.
 Boudriesa Let. & Bgt. . ix, 251
 Bougainvillei Pfr. vi, 128 ;
 [ix, 121
 Bounobœna Orb. i, 64.
 Bourailensis Cass. ii, 167.
 Bourcierii Pfr. v, 156 ; . ix, 94
Bourcierii Rv. . . ix, 94
 Bourdillonii Theob. vii, 127.
 Bourguignatiana Mab. & Le
 [M. ii, 120
 Bourguignati Pfr. iii, 204 ;
 [ix, 272
 Bourkensis E. A. Sm. vi, 308 ;
 [ix, 131
 Bourniana Bgt. iii, 268 ; ix, 273
 Bouryi Morg. iii, 172 ; . ix, 170
 Bousqueti Deb. . . ix, 250
 Bouthyana, Pech. . . ix, 307
 Bouvieri Morel. iii, 46.
 Bouyeri Cr. & Fisch. ii, 219.
 Bowdichiana Fér. iv, 187 ;
 [ix, 239
Boxalli Sowb. . . ix, 212
Boydii Ang. i, 119.
 Boyeri C. & F. vii, 47 ; ix, 140
 Brachydiscus Gr.-Aust. iii,
 [162 ; ix, 146
 Brachylasia S. & B. viii,
 [194, ix, 209
 Brachyodon Sowb. viii, 267 ;
 [ix, 104
 Brachyplecta Bens. iii, 163 ;
 [ix, 145
 Bracteola Fér. . . ix, 58
Bradybæna Beck, . . ix, 202
Bradybæna L. & B. . ix, 257
Bradygyra Fag. . . ix, 257
 Brahma G.-Aust. iii, 164 ;
 [ix, 145
 Brandtii Kob. vi, 101 ; . ix, 214
 Braidensis Poll. . . ix, 254
 Brardiana Pfr. iii, 210 ; ix, 204
 Brazieræ Braz. vii, 43 ; ix, 142
 BRAZIERIA Ancey, . ix, 29
 Brazieri Cox, i, 171.
 Brazieri Cox, iii, 24 ; . ix, 34
 Brazilianana Fér. v, 184 ; ix, 167
 Bredeana Deb. . . ix, 324
Brenchleyi Ang. . . ix, 140
Brenchleyi Braz. vii, 16 ; ix, 140
Brenoensis Muhl. . . ix, 300
 Brenskei Bttg. iv, 113 ; ix, 303
 Breveti Deb. viii, 169 ; . ix, 250
 Brevicula Pfr. viii, 45 ; . ix, 231
Breviculus Rve. . . ix, 229
 Brevibarbis Pfr. iii, 221 ; ix, 169
 Brevidens Pfr. vi, 272 ; ix, 124
 Brevieri Pech. iv, 139 ; . ix, 325
 Brevipila Pfr. vi, 265 ; . ix, 122
 Brevis C. B. Ad. iii, 9 ; . ix, 64
 Breviseta Pfr. vi, 268 ; ix, 124
 Brevispira H. Ad. viii, 208 ;
 [ix, 206
Breweri Newc. ii, 161.
 Briandi Serv. . . ix, 267
 Briaræa B. . . ix, 257
Bridayi Branc. . . ix, 302

- | | | | |
|--------------------------------|----------|---------------------------------|----------------|
| Bridgesii Newc. | ix, 199 | Brunnescens Mldff. viii, 82 ; | |
| Bridgesi Try. | ix, 199 | Brunonis Kob. | [ix, 35 |
| Bridwilli Pfr. | ix, 142 | Brusinae Stoss. iv, 98 ; . | ix, 302 |
| Brigantina Meng. iii, 204 ; | | Bryanti Harp. iii, 43 ; . | ix, 48 |
| Brinophila Loc. iv, 18. [ix, | 272 | Bryanti Pfr. iv, 83 ; . | ix, 181 |
| Brittanica West. | ix, 274 | Bryarea Bgt. iv, 19. | |
| Broadbenti Braz. vi, 176 ; | | Bryodes Shuttlew. ii, 164. | |
| | [ix, 134 | Byrophila Ph. iii, 42 ; . | ix, 41 |
| Brocardiana Dut. iv, 112 ; | | Brysa Marés, | ix, 336 |
| | [ix, 305 | Buccata Hde. ii, 216. | |
| Brocciana Calc. | ix, 47 | Buccinella Rv. iii, 23 ; . | ix, 32 |
| Broccii Calc. ii, 158. | | Bucculenta Gld. iii, 153 ; ix, | 77 |
| Broccii Mayer, | ix, 311 | Bucculenta Tap.-Can. vi, | |
| Brocha Bgt. | ix, 326 | | [195 ; ix, 155 |
| Brocheri (Gut.) Pfr. v, 55 ; | | Buchholzi Bgt. ii, 128. | |
| | [ix, 189 | Buchii Dub. iv, 238 ; . | ix, 319 |
| Brocheroi Arango, | ix, 189 | Buddæ Hilb. viii, 208 ; ix, | 206 |
| Brodiei Braz. vii, 10 ; . | ix, 140 | Buddiana C. B. Ad. v, 7 ; ix, | 67 |
| Broderipi Pfr. vii, 123 ; ix, | 220 | Buelowi Malz. viii, 236 ; ix, | 330 |
| Broderipi Rve. | ix, 219 | Buffoniana Pfr. | ix, 192 |
| Broemmei Kob. viii, 229 ; | | Bukowicanica Brus. | ix, 301 |
| | [ix, 303 | Bulacanensis Hid. vi, 226 ; | |
| Brondeli Bgt. iii, 255 ; . | ix, 259 | | [ix, 109 |
| Bronni Pfr. v, 112 ; . | ix, 90 | Bulbina Dh. | ix, 76 |
| Bronni v. β Pfr. | ix, 90 | Bulbulus Mouss. vi, 258 ; ix, | 120 |
| Brookei A. & R. ii, 17. | | Bulbus Mke. iii, 213 ; . | ix, 173 |
| Broti d' H. & D. | ix, 104 | Bulbus Mouss. | ix, 120 |
| Brotii Bonn. ii, 71. | | Bulina Less. | ix, 344 |
| Broughami Ang. vi, 146 ; ix, | 131 | BULIMINOPSIS Heude. | ix, 171 |
| Brouni Sut. viii, 102 ; . | ix, 32 | Buliminoides Hde. iv, 31 ; | |
| Browneana Pfr. v, 109 ; ix, | 90 | | [ix, 171 |
| Brownii Pils. v, 29 ; . | ix, 184 | Buliminus Hde. iv, 32 ; ix, | 171 |
| Browningii Bens. viii, 136 ; | | Bulimoides Moq. | ix, 264 |
| | [ix, 38 | Bullacea Pfr. i, 124. | |
| Brucei Jick. iii, 52 ; . | ix, 44 | Bulla Pfr. ii, 37. | |
| Bruguieriana Pfr. vii, 166 ; | | Bullula Hutt. ii, 64. | |
| | [ix, 224 | Bullula Brod. | ix, 229 |
| Bruijnii Tap.-Can. ii, 219. | | Bulveriana Lwe. | ix, 243 |
| Brundusiana Fag. | ix, 256 | Bulverii Wood, iv, 42 ; . | ix, 243 |
| Bruneri Anc. viii, 119 ; ix, | 50 | Buphthalmus Fér. ii, 29. | |
| Brumalis M. & D. ii, 160. | | Burdigalensis Grat. | ix, 249 |
| Brumeriensis Forbes, vii, 52 ; | | Burella L. & B. | ix, 251 |
| | [ix, 142 | Burini Bgt. iv, 141 ; . | ix, 325 |
| Bruniana Gass. i, 119 ; . | ix, 54 | Burnerensis Smith, | ix, 343 |
| Brunii Mörch. iii, 74. | | Burnupi M. & P. viii, 140 ; ix, | 38 |
| Brunnea Porro. | ix, 319 | Burrailensis G.-Aust. ii, 65. | |
| Brunnea Ant. ii, 113. | | Bursatella Gld. iii, 71 ; ix, | 24 |
| Brunnea Sowb. | ix, 223 | | |

- Burtinii Dh. iv, 48; . ix, 204
 Buruensis Mart. . . ix, 119
 Busbyi Gray, i, 126.
Buschi Pfr. . . ix, 229
 Bussaona Silv. . . ix, 44
 Bustoi Hid. vi, 230; . ix, 109
Bustoi Hid. . . ix, 229
 Butleri Pfr. vii, 188; . ix, 225
Buttoni Hemph. viii, 117;
 [ix, 50
 Buvigneri Dh. viii, 212; ix, 206
 Buvignieri Mich. iii, 121;
 [ix, 288
 Buxetorum Bgt. . . ix, 267
 Buxina Heude. . . ix, 343
 Buxtoni Braz. vi, 265; ix, 122
 Byssina Gredl. . . ix, 272

 Cabriti Gass. i, 113.
 Cacista Bgt. . . ix, 257
 Cacopera Mab. iv, 172; ix, 327
 Cacopista Mab. iv, 158; ix, 327
 Cacoplasta Mab. iv, 159; ix, 327
 Cacumenifera Bens. ii, 57.
Cadaverosus Pils. vi, 19; ix, 156
 Caduea Pfr. ii, 186.
 Caducior Rv. ii, 32.
 Cæca Guppy, iii, 55; . ix, 57
 Cæcilia Pfr. ii, 210.
 Cæcoides Gupp. iii, 55; ix, 57
 CÆLATURA Pfr. ii, 5, 21.
 Cælata Stud. iii, 175; ix, 273
 Cælatina Loc. . . ix, 273
 Cælestis Let. & Bgt. . ix, 251
 Cæmentitia Sh. iv, 20, ix, 258
Cenatoria Held. . . ix, 316
 Cænotera M. & P. viii, 135.
 Cærulescens Ang. vii, 68; ix, 142
 Cæsa Cox, iii, 261; . ix, 10
 Cæsareana Parr. iv, 227; ix, 333
 Cæsar Pfr. viii 15; . ix, 228
 Cæsia Pfr. ii, 86.
 Caffra Fér. i, 131; viii, 135.
 Caficii Ad. . . ix, 260
 Caharica Aust. ii, 92.
 Cahuzaci Bgt. . . ix, 256
 Caidis Anc. . . ix, 272
Caileti Crs. iii, 216; ix, 131
 Cailliaudi Dh. vii, 144; ix, 222
 Cailliaudi Petit. . . ix, 231
 Calabarica Pfr. ii, 51.
 Calabrica Kob. iv, 243; ix, 320
 Calabrica Paul, ii, 150.
 Calacala Weinl. v, 29; ix, 184
 Calacaloides Pils. v, 28; ix, 184
 Calæca Fag. . . ix, 322
 Calamechroa Jonas, ii, 127.
 Calamianica Q. & M. . ix, 231
 Calaritana Paul, . . ix, 264
 Calathoides Paiv. iii, 44; ix, 51
 Calcaræ Arad. & Mag. ii, 190.
 Calcarata Ben. iv, 28; ix, 263
 Calcarea Högb. iv, 118; ix, 306
 Calcarea Mouss, . . ix, 258
 Calcarina Anc. iii, 238.
Calcarina Moq. . . ix, 232
 Calcar Mart. vi, 221; . ix, 108
Calcigena Lwe. iv, 45; ix, 243
 Calculina Pfr. iii, 125; ix, 83
 Calculosa Gld. ii, 49.
Calculus Hde. . . ix, 209
 Calculus Lwe. iv, 39; ix, 242
Calculus Pfr. . . ix, 83
 Caldeirarum M. & D. iv,
 [196; ix, 293
 CALDWELLIA Ad. ii, 6, 27.
 Caldwelli Barc. ii, 27, 218.
 Caldwelli (Barcl.) Bens. iii, 27
 Caledonica Crosse, i, 116.
 Calias Bens. ii, 109.
 Calida Kob. viii, 167; . ix, 250
 Californiensis Lea, iv, 119;
 [ix, 199
 Calista Brod. viii, 24; ix, 228
 Callestha Béreng. . . ix, 256
Callicochlias Ag. . . ix, 222
 Callifera Pfr. ii, 114.
Calligera Dub. . . ix, 322
 CALLINA Lowe, . . ix, 241
 Calliope Cr. iii, 36; . ix, 33
Calliostoma A. & R. . ix, 337
 Callipona Mab. iv, 160; ix, 327
 Callirhoë Rolle, . . ix, 325
 Callistoderma L. & B. ix, 260
 Callizona Cr. vi, 105; ix, 213
 Callojuncta West. . ix, 288

- Callojunctis Pils. . . ix, 200
Callopisticus Bgt. ii, 173.
Callosa Ant. iii, 259.
Calobapta Jonas, viii, 46 ;
 [ix, 231
CALOCOCHLEA Hartmn. ix, 222
Calographa West. . ix, 251
Calomorpha Jonas, v, 142 ;
 [ix, 94
Calopsis Bgt. viii, 165 ; ix, 250
Calostrophæ Anc. . ix, 83
Calpeana Mor. iii, 120 ; ix, 288
Calpica Kob. ii, 158.
Calpis Bens. iii, 52.
Caltabellotensis Kob. viii,
 [232 ; ix, 331
Calva Gld. ii, 110.
Calva Kob. iv, 91 ; . ix, 301
Calva Lwe. iv, 41 ; . ix, 240
Calymma Schm. & Bttg. ix, 205
Calymna Hutton, . ix, 18
Calymnia Mts. viii, 179 ; ix, 254
Calypso Ben. . ix, 331
Calypso Brod. viii, 25 ; ix, 229
Calypso Parr. . ix, 255
Calypso Pfr. vi, 28 ; . ix, 157
CAMÆNA Alb. . . ix, 101
CAMÆNELLA Pils. . ix, 105
CAMÆNINÆ . . . ix,
 [xxxii
Cambojiensis Rv. ii, 18.
Camelina Bgt. ii, 154.
Camelopardalis Brod. viii,
 [25 ; ix, 229
Camelus Pfr. vi, 237 ; ix, 109
Camena Mart. . . ix, 101
Camerani Less. . . ix, 288
Camerata Mouss. iii, 232 ; ix, 250
Camillæ Cox, . . ix, 34
Campana Tib. iv, 243 ; ix, 319
Campanica Paul, . . ix, 266
Campanula Pfr. vi, 236 ; ix, 104
Campbelliana Pils. vi, 39 ;
 [ix, 157
Campbellica Filh. iii, 102 ;
 [ix, 9
Campbelli Gray, iii, 72.
Campelica Mab. vi, 54 ; ix, 157
Campesina Ezq. . . ix, 325
Campestris Zgl. . . ix, 255
Campochilus Pils. viii, 201 ;
 [ix, 169
Campoensis Fag. . . ix, 257
Camprodnica Kob. iv, 118 ;
 [ix, 307
Campylæa Beck, . . ix, 299
Campylonota Tap.-Can. ii, 217
Camura Bens. ii, 130.
Cana Bgt. . . ix, 251
Canalifera Ant. iii, 118 ; ix, 288
Canalis Grt. iii, 39 ; . ix, 35
Canariæ Mouss. ii, 156.
Canariensis Mouss. . ix, 259
Canariensis Sh. . . ix, 249
Candaharica Pfr. iii, 247 ;
 [ix, 249
Candeloti C. & M. i, 122.
Candescens C. B. Ad. v, 117 ;
 [ix, 90
Candicans Auct. iii, 244 ;
 [ix, 252
Candida Gm. ii, 17.
Candida Porro. . . ix, 252
Candida Rm. iv, 247 ; ix, 320
Candida Spix, i, 61.
Candidissima Drap. iii, 10 ;
 [ix, 234
CANDIDULA Kob. . ix, 253
Candidula Stud. iv, 10 ; ix, 254
Candiota Friv. iii, 234 ; ix, 250
Candisata Mke. . . ix, 242
Canescens Ad. & Rv. iii,
 [214 ; ix, 200
Canicalensis Lwe. iv, 188 ;
 [ix, 240
Canigonensis Boub. . ix, 307
Canigonica Fag. . . ix, 307
Canina Anc. viii, 177 ; ix, 250
Canini Ben. ii, 147.
CANISTRUM Mörch. . ix, 230
Canovarîi Tap.-Can. vii, 26 ;
 [ix, 141
Canovasiana Serv. . ix, 256
Cantabrica Hid. iv, 110 ; ix, 254
Cantabrica Paul. iv, 91 ; ix, 301
Cantæ (B.) Serv. . ix, 326

- CANTAREUS Risso, . ix, 318
Canthareus Agas. . ix, 316
 Cantiana Mont. iii, 192; ix, 266
 Cantianiformis Bgt. . ix, 266
 Cantoriana Bens. iii, 83; ix, 4
 Capensis Pfr. iii, 103; ix, 37
 Caperata Mont. iv, 14; ix, 254
 Caperatus Gld. i, 171.
 Capessens Bens. ii, 132, 220.
 Capillacea Fér. i, 125.
Capillacea Pfr. ii, 185.
 Capitanea Pfr. ii, 72.
 Capitium Bens. iii, 74; ix, 170
 Capnodes W. G. Binn. ii, 183.
 CAPRINUS Montf. . ix, 90
 Capsella Gld. ii, 162.
 Capsella Lwe. iv, 41; . ix, 241
 Capsula Bens. ii, 176.
 Capuana Bgt. iv, 30: . ix, 263
 Capusi Villes. . ix, 272
 Caputspinulæ Rv. iii, 102;
 [ix, 33
Carabinata Fér. . ix, 148
 Cara C. B. Ad. v, 107; ix, 89
Caracolina Auct. . ix, 284
 Caracolla Linn. v, 120; ix, 93
Caracolla Schum. . ix, 92
Caracolla Turton, . ix, 298
 CARACOLLINA Beck, . ix, 288
 CARACOLUS Montf. . ix, 92
 Caræ Cantr. iv, 216; . ix, 331
 Carascalensis Fér. vi, 103;
 [ix, 254
 Carascaloides Bgt. iii, 193;
 [ix, 272
 Carascalopsis Fag. iv, 104;
 [ix, 257
 Carbonaria Sowb. vii, 163;
 [ix, 224
 Carcharias Pfr. vi, 189; ix, 136
 Carcusiaca Mab. iv, 17; ix, 256
 Cardiobola Mab. iv, 173:
 [ix, 327
 Cardiostoma Kob. iii, 219;
 [ix, 169
 Cardonæ Hid. iii, 258; ix, 259
Carduelis Reib. . ix, 204
 Carfaniensis Stef. . ix, 265
 Caribæa Weinl. v, 26; ix, 184
 Caricus Roth, ii, 135.
 Carinaria Mlldff. . ix, 337
 Carinata Bgt. . ix, 333
 Carinata Braz. . ix, 34
 Carinata H. & J. vii, 36; ix, 141
 Carinata Lea, viii. 22; ix, 228
 Carinata Streb. ii, 188.
Carina Wood, . ix, 155
Carinifera Ad. . ix, 207
 Carinifera Semp. viii, 220;
 [ix, 204
 Carinifera Stol. ii, 54.
 Cariosa Oliv. iii, 13; . ix, 234
 Cariosula Mich. iii, 13; ix, 234
 Carmeliensis Pfr. ii, 158.
 Carmelita Fér. v, 99; ix, 89
 Carmelita Tristr. iii, 198.
Carnea Hemph. viii, 117; ix, 50
 Carneola Grat. viii, 19; ix, 228
 Carneola Pfr. ii, 94.
Carnicolor Orb. . ix, 189
Carnicolor Pfr. . ix, 184
Carnina Chier. . ix, 250
 Carniolicus Schm. ii, 136.
 Caroli D. & H. iii, 258; ix, 259
 Carolinensis Lea, viii, 153:
 [ix, 77
Carolus Dh. . ix, 227
 Caroni Dh. iv, 29; . ix, 262
Carosina Serv. iv, 84; ix, 253
 Carotæ Bgt. iii, 31. . ix, 44
 Carotii Paul. ii, 189.
 Carotii Paul. iv, 112; . ix, 305
Carpatia Friv. . ix, 272
 Carpensoractensis Fag. ix, 251
 Carpenteriana Bld. . ix, 73
 Carpenteri Newc. iv, 71; ix, 199
 Carpetana Hid. . ix, 47
Carpensis L. & B. . ix, 336
 Carrarensis Porro. iv, 105;
 [ix, 301
Carseolana Fér. . ix, 332
 Carsoliana Fér. iv, 219; ix, 332
 Carta Mab. iv, 166; . ix, 327
 Cartereti Smith, ii 40.
 Carthageniensis Rossm. ix, 325
Carthusiana Kob. . ix, 264

- Carthusiana* Müll. iii, 195 ;
 [ix, 266
Carthusianella Dr. . ix, 266
CARTHÆA Hutton, . ix, 339
Caruanæ Kob. viii, 174 ; ix, 250
Caruanæ Pils. iv, 208 ; ix, 330
CARYODES Albers, . ix, 161
Caryx Bens. iii, 75 ; . ix, 4
Casea Gld. ii, 110.
CASEOLUS Lowe, . ix, 242
Casertana Bgt. . ix, 250
Casertana Paul. iv, 91 ; ix, 301
Caseus Pfr. iv, 59.
Caspari Mlldff. vi, 115 ; ix, 214
Caspia Bttg. ii, 158.
Cassandra Hutt. viii, 66 ; ix, 15
Cassandra Pfr. vi, 147 ; ix, 131
Cassida Hutt. i, 175.
Cassidula Bens. ii, 177.
Cassinensis Paul. iv, 91. ix, 301
Cassiniensis Smith, . ix, 343
Cassiquiensis Newc. ii, 175.
Casta Pfr. vii, 120 ; . ix, 219
Castanea Bttg. . ix, 304
Castanea Hemph. viii, 116 ;
 [ix, 50
Castanea Hemph. . ix, 76
Castanea Hemph. . ix, 200
Castanea Müll. ii, 80.
Castanea Oliv. iv, 239 ; ix, 319
Castanea Rm. iv, 111 ; . ix, 301
Castaneolabiata Aust. ii, 101.
Castaneola Hde. ii, 122.
Castaneus Pfr. i, 169.
Castelnaudii Hupé, . ix, 167
Castelnavi Pfr. . ix, 167
Castelneaudii D. & H. v,
 [193 ; ix, 167
Castor Theob. ii, 129.
Castra Bens. iii, 84 ; . ix, 4
Castrensis Pfr. v, 59 ; . ix, 97
Castroiana Serv. . ix, 257
Catarella Mab. vi, 49 ; . ix, 156
Catarota Bgt. . ix, 251
Catarotella Bgt. iii, 239.
Catenifera Pfr. v, 191 ; ix, 166
Catenulata Anc. viii, 261 ; ix, 166
Catenulata Muhl. . ix, 303
Cateucta Mab. iv, 158 ; . ix, 327
CATHAICA Mlldff. . ix, 205
Cathara West, . ix, 320
Catharolena Bgt. ix, 326.
Cathcartæ Reeve, iv, 51 ; ix, 337
Catinus Bens. . ix, 145
Catinus Pfr. iii, 74 ; . ix, 5
Catletti Braz. ii, 123.
Catocyphia Bgt. iii, 256 ; ix, 336
Catodonta (B.) Pech. . ix, 324
Catoleia Bgt. . ix, 272
Catoleius Bgt. ii, 137.
Catostoma Bens. iv, 62 ; ix, 209
Catskillensis Pils. . ix, 48
Caturigia Paul. . ix, 256
Caucasica Mouss. . ix, 274
Caucasica Parr. . ix, 249
Caucasica Pfr. . ix, 304
Caudefacta Let. & Bgt. ix, 251
Causia Bens. iii, 102.
Cauta West. iii, 240 ; . ix, 250
Cavannæ Paul. ii, 144.
Cavannæ Paul, iii, 259 ; ix, 259
Cavarella Serv. ii, 143 ; ix, 275
Cavata Mouss. iv, 252 ; ix, 320
Cavernula Garr. . ix, 24
Cavernula H. & J. iii, 69 ; ix, 24
Cavimargo Mart. . ix, 204, 259
Cayennensis Pfr. ii, 182.
Caymanensis Mayn. viii,
 [241 ; ix, 183
Cazenavetti F. & B. vi, 35,
 [302 ; ix, 157
Cebuana Mlldff. . ix, 215
Cecillei Phil. vi, 109 ; . ix, 214
Cedretorum Deb. iii, 179 ; ix, 273
Celebensis Pfr. i, 178.
Celebensis Pfr. ii, 79.
Celia Hutt. viii, 60 ; . ix, 9
Cellaria Müll. ii, 155.
Celine Gray, ii, 211 ; . ix, 16
Celsa Pse. . ix, 25
Cemenelea Risso, iii, 193 ; ix, 266
Cenestinensis Cr. & Deb. iv,
 [216 ; ix, 331
Cenisia Charp. . ix, 254
Centralis Beck, ii, 105.
Centralis Mouss. ii, 41.

- Cepæa* Held. . . ix, 320
Cepa Müll. v, 93; . . ix, 180
Cephalonica Mouss. iii, 118; [ix, 288
Cepoides Lea, vii, 194; . ix, 226
CĒPOLIS Montf. . . ix, 177
Ceramensis Pfr. vi, 249; ix, 119
Ceraria Bens. ii, 41.
Cerasina Gredler, . ix, 212
Cerasina Sh. . . ix, 318
Cerata Cox, . . ix, 133
Ceratodes Pfr. ii, 105.
Ceratomma Pfr. iv, 231; ix, 333
Cerea Cox, . . ix, 133
Cerea Gld. ii, 128.
Cerea Pfr. iii, 106.
Cerea Hedl. . . ix, 142
Cerealis Cox, . . ix, 5
Cerealis Crosse, i, 114; . ix, 20
Cereolus Mühlf. iii, 128; ix, 73
Ceres Pfr. vi, 239; . ix, 104
Cerigottana Butg. . . ix, 277
Cerina Morel. vi, 57; . ix, 158
Cerinoidea Anth. ii, 197.
Cernica H. Ad. ii, 28.
Cernua Mts. viii, 263; . ix, 173
Ceroconus Pfr. iii, 75.
Ceroides Pfr. iii, 47; . ix, 41
Ceromatica Morel. ii, 97.
Certa Bgt. . . ix, 251
Cespitoides Fisch. viii, 176; [ix, 250
Cespitum Drap. iii, 241; ix, 250
Cesticulus Gundl. v, 33; ix, 185
Cestus Bens. iii, 206; . ix, 204
Ceylanica Pfr. ii, 84.
Ceylanicus Beck, i, 177.
Ceyssoni Bgt. . . ix, 267
Chaixii Mich. . . ix, 311
Chalcidica Bl. iii, 24, 231; [ix, 250
Chalcophila Orb. i, 63.
CHALEPOTAXIS Ancey, . ix, 167
Challameliana Bgt. . ix, 275
Challisi Cox, vi, 173; . ix, 134
Chamaeleon Parr. iv, 101; ix, 302
Chambardi L. & B. . ix, 336
Chambertinii Tryon, ii, 39.
Chamissoi Pfr. ii, 116.
Chancei Cox, vii, 5; . ix, 139
Chaperi West. . . ix, 341
Chapmani Cox, vii, 51; . ix, 142
Chapmanni Anc. . . ix, 340
Charieia Pech. iv, 136; . ix, 324
Chariessa Pils. vi, 279; . ix, 111
Charmesiana L. & B. . ix, 250
CHAROPA Albers, . ix, 31
Charopa Hutton, . ix, 17
Charopidae Hutt. ix, xxxi.
Charpentieri Pfr. iii, 156; ix, 148
Charpentieri Schol. . ix, 302
Charybdis Bens. iii, 108.
Charybdis Mörch. . ix, 82
Chastellii Fér. ii, 76.
Cheesemani Suter, . ix, 338
Cheffana Bgt. iii, 199; . ix, 272
Cheilodon Say, Bld. . ix, 73
Cheilostropha d'Orb. iii, [128; ix, 83
Cheiranthicola Lwe. iv, 46; [ix, 243
Cheiri Less. vi, 241.
Chelia Bgt. ii, 156.
Chelonites Cr. i, 117; . ix, 20
Chelydea West. . ix, 271
Chemnitziana Pfr. v, 104; ix, 89
Chennelli G.-A. ii, 66.
Chenui Pfr. ii, 38.
Cheratomorpha Tap. Can. [vi, 245; ix, 119
Cherraensis Blanf. ii, 129.
Cherraensis G.-Aust. ii, 62.
Chersa Bgt. ii, 220.
Chersa Mab. iv, 153; . ix, 327
Chersinella Dall, ii, 161.
Chersonesica Kob. iii, 194.
Chersonesica Mühl. . ix, 259
Chevalieri Soul. ii, 42.
Chiæ Fag. . . ix, 257
Chiapensis Pfr. iii, 138; ix, 74
Chilembia Bgt. . . ix, 335
Chilhowëensis Lewis, iii, [155; ix, 76
Chiliensis Mühl. iii, 42; ix, 340
Chilodon Ehrenb. . ix, 284
Chilogymnus Ehrenb. . ix, 286

- Chilostoma* Fitz. . . ix, 282
CHILOSTOMA Fitz. . . ix, 299
Chilotrema Leach. . . ix, 298
Chimmoi Pfr. ii, 210.
Chimotrema Raf. . . ix, 69
Chinensis Hde. . . ix, 219
Chinensis Phil. iv, 60; . ix, 210
Chinensis Voigt, . . ix, 103
Chioidea Bgt. . . ix, 251
Chionodiscus Pfr. iii, 11; ix, 234
Chiophila Bgt. iv, 110. . ix, 302
Chiron Gray, viii, 77; . ix, 18
Chittyana C. B. Ad. v, 108; [ix, 89
CHLORÆA Albers, . ix, 214
Chlorata Lwe. . . ix, 293
CHLORITIS Beck, . . ix, 117
Chloritis Semp. . . ix, 212
Chloritoides Pils. vi, 267; ix, 122
Chlorochroa Sowb. vii, 150; [ix, 223
Chlorogrammica Val. . ix, 225
Chloroleuca Mart. . ix, 229
Chloroplax Bens. iii, 74.
Chloroticus Pfr. ii, 136.
Chlorozona Grat. vi, 31; ix, 157
Chnoodia Bgt. iii, 179; . ix, 273
Choelotricha Bgt. . . ix, 302
Choinix Bens. ii, 96.
Choiseulensis Braz. vii, 16; [ix, 140
Chola Pech, iii, 198; . ix, 260
Chondrodes Strub. viii, 292; [ix, 141
Chonomphala Bgt. . ix, 259
Chonomphala Bgt. . ix, 273
Chordata Pfr. ii, 215; . ix, 16
Choreta Bgt. iii, 231; . ix, 250
Chorismenostoma Bl. & W. [ix, 44
Chorista (B.) Serv. . ix, 326
Choristochila Bttg. iv, 102; [ix, 303
Chottica Anc. . . ix, 324
Christianæ Theob. i, 176; ii, 112
Christinæ H. Ad. viii, 213; [ix, 207
Christophi Bttg. iv, 251; ix, 320
Christyi Bld. iii, 151; ix, 77
Chromatocochlias Ag. ix, 226
CHROMATOSPLERA Pilsbry, [ix, 221
Chromochila Pils. v, 15; ix, 186
Chromocochlea Hartm. . ix, 226
Chrysæme Q. & M. . ix, 223
Chrysalidiformis Sby. viii, 51; [ix, 231
CHRYSTALLIS Alb. . ix, 231
Chrysocheila Sowb. . ix, 222
Chrysochila Sowb. vii, 138; [ix, 222
Chrysodon Anc. . . ix, 91
Chrysomela Pfr. iv, 198; ix, 293
Chrysosticta Morel. ii, 127.
Chrysostomi Rolle, . ix, 333
Chrysotricha Bttg. viii, 190; [ix, 273
Chthamalolena Bgt. . ix, 260
Chydopsis (Bgt.) Péch. . ix, 326
Cinæ Kl. . . ix, 337
Cidaris Gray, ii, 36.
Cidaris Lam. ii, 72.
Cicatricosa Müll. vi, 198; ix, 103
Cicercula Fér., Dh. . ix, 68
Cicercula Gld. ii, 116.
Cigenda Mont. . . ix, 336
Ciliata Morel. . . ix, 268
Ciliata Suter, . . ix, 338
Ciliata Ven. iii, 187; . ix, 276
CILIELLA Mouss. . . ix, 275
Ciliosa Pfr. iv, 55; . ix, 209
Cimex Pfr. ii, 170.
Cincinna Sowb. viii, 16; ix, 228
Cincinnatiiformis Sby. viii, 18; [ix, 228
Cincinnus Rve. . . ix, 165
Cincta Lea, ii, 82.
Cincta Lewis, viii, 152; ix, 78
Cincta Müll. iv, 245; . ix, 319
Cincta Mlldff. ii, 103.
Cincta Perry, . . ix, 189
Cinctella Dr. iii, 187; . ix, 271
Cinctoinflata Mouss. iv, 47; [ix, 204
Cineracea H. & J. vii, 77; [ix, 143

- Cochinchinensis* Morl. i, 177.
Cochlea Adans. . ix, 326
COCHLICELLA (Fér.) Risso, [ix, 263
COCHLICOPA Fér. . ix, xviii
Cochlidium Cox, iii, 25; ix, 34
Cochlitoma Fér. . ix, xviii
Cochlodina Fér. . ix, xviii
Cochlodonta Fér. . ix, xviii
COCHLODRYAS Martens, ix, 225
Cochlogena Fér. . ix, xviii
Cochlohydra Fér. . ix, xviii
Cochloides Fér. . ix, xviii
Cochlostyla Fér. . ix, 218
Codia Bgt. iv, 16; . ix, 254
Codonensis Hid, vii, 140; ix, 222
Codonodes Pfr. vi, 236; ix, 109
Codringtoni Gray, iv, 143; [ix, 325
Cœlatura Fér. ii, 21.
Cœlaxis Pils. vii, 114; . ix, 221
Cœlomphala Loc. . ix, 273
Cœlospira Anc. . ix, 194
Cœpta Cox, iii, 263; . ix, 338
Cœrulans, Mhl. iv, iii, . ix, 301
Coerulea Mildff. vii, 101; ix, 215
Cœsus Cox, . ix, 10
Coffea Pfr. ii, 80.
Coffreanus Moric. i, 62.
Coguiensis Cr. i, 118.
Cognata Fér. v, 59; . ix, 97
Coiquecana Ph. iii, 43; ix, 41
Colchica Bayer, . ix, 272
Colensoi Sut. viii, 99; . ix, 33
COLIOLUS Tap.-Can. . ix, 171
Collapsus Perry, . ix, 108
Collaris Pfr. iii, 138; . ix, 39
Colletti Bedd. viii, 274; ix, 124
Collingii Smith, viii, 287; ix, 114
Colliniana Bgt. . ix, 267
Collinsoni A. Ad. iii, 191.
Collis Mouss. . ix, 112
Collodes Sowb. vii, 184; ix, 224
Collyrula Rve. . ix, 13
Coloba Pils. . ix, 57
Colombeliana Hde. ii, 122.
Colomiesiana Bgt. iii, 232; [ix, 250
Colona v. Mts. vi, 190; ix, 136
Coloradoensis Stearns, viii, [225, ix, 199
Colorata Mouss. ii, 72.
Coloratu Mouss. . ix, 140
Colorata Nev. . ix, 322
Collossea Pfr. . ix, 227
Colosseana Fag. . ix, 257
Coluber Beck, . ix, 112
Colubrina Jan. iv, 105; ix, 302
Colubrina Perry, . ix, 166
Columbaria Sowb. vi, 234; [ix, 109
Columbiana Lea. iii, 154; [ix, 76
Columbina West. . ix, 259
Columellaris Bk. ii, 73.
Columellaris Pfr. ii, 127.
Columellata C. B. Ad. v, 9; [ix, 67
Columnæ Pons. viii, 148; ix, 288
COLUMPLICA Hartmann, ix, 226
Coma Gray, iii, 22; . ix, 33
Comaliana Bgt. iii, 227; ix, 337
Combesiana Bgt. iii, 190; ix, 268
Combusta Anc. iii, 238.
Comendadori Serv. . ix, 251
Comephora Bgt. iv, 96; ix, 303
Comes Poey. v, 11; . ix, 187
Commeata Mouss. . ix, 250
Commendabilis Fér. ii, 70.
Commixta, Lwe. . ix, 242
Commoda A. Ad. iii, 191.
Communis Ben. . ix, 331
Communitanda Anc. . ix, 76
Comnena Ret. . ix, 255
Comorensis Morel. ii, 78.
Compacta Haz. iv, 237; ix, 319
Compacta Lwe. iv, 39; ix, 242
Companyoi West. . ix, 325
Companionii Aler. iv, 148; [ix, 325
Compar Lwe. iv, 37; . ix, 243
Complanata Bgt. iv, 95; ix, 302
Complanata Desh. ii, 195.
Complanata Jeffr. ii, 138.
Complanata Mart. ii, 36.
Complementaria Mouss. iii, [40; ix, 35
Compluvialis Blanf. ii, 93.

- Compluviata* Cox, ii, 44.
Compressa Mouss. . ix, 159
Compressivoluta Rv. i, 128; [ix, 18
Compressus Zgl. ii, 135.
Compsopleura Bgt. . ix, 302
Compta H. Ad. . ix, 112
Comriei Ang. vii, 64; . ix, 142
Comta Gundl. v, 34; . ix, 185
Comythophora Bttg. . ix, 303
Concava Say, ii, 206.
Concavospira Pfr. ii, 57.
Concentrica Guill. iii, 81; ix, 6
Concholeuca L. & B. . ix, 257
Concinna A. Ad. iii, 185.
Concinna Dup. iii, 174.
Concinna Jeffr. iii, 173; ix, 274
Concinna Lwe. iii, 21; . ix, 341
Concinna Sowb. viii, 27; ix, 229
Concisa Fér. vi, 262; . ix, 120
Concolor Bttg. viii, 126; ix, 5
Concolor Fér. ii, 208.
Concolor Mts. ix, 267.
Concolor Pils. vi, 303; ix, 154
Concreta Bgt. . ix, 275
Condenmoyi Nev. iii, 108.
Condoriana C. & F. vi, 269; [ix, 124
Conella Ad. iv, 56; . ix, 169
Conella Pfr. viii, 58; . ix, 9
Conemenosi Bttg. viii, 229; [ix, 303
Conferta Pfr. iii, 81; . ix, 6
Confinis Blf. ii, 53.
Confinis Gass. iii, 35; . ix, 33
Conformis Fér. vii, 113; ix, 221
Confucii Hilb. viii, 213; ix, 206
Confusa Ben. iv, 92; . ix, 302
Confusa Pfr. i, 125.
Congellana Kr. iii, 108.
Conger Sm. . ix, 213
Congenita Sm. vi, 103; ix, 213
Congrua Pfr. vii, 4; . ix, 139
Congrua Pse. not Pfr. . ix, 6
Conica Drap. . ix, 263
Conica Jeffr. . ix, 274
Conica Pils. vi, 305; . ix, 214
Conica Swains. . ix, 64
Conicava Mouss. . ix, 25
Conicoides Metc. ii, 48.
Conicula Let. & Bgt. . ix, 260
Coniformis Fér. vii, 50; ix, 140
Conimbricensis Silv. . ix, 274
Conisalea M. & P. viii, 145; [ix, 38
Conjungens Stol. ii, 110.
Connectens C. B. Ad. iii, 6; [ix, 64
Connectens Mlldff. . ix, 229
Connexa West. . ix, 330
Connivens Pfr. vi, 96; . ix, 213
Conoidalis Ad. & Rve. ii, 82.
Conoidalis Mlldff. . ix, 342
Conoidea Anc. viii, 264; ix, 95
Conoidea Bgt. . ix, 44
Conoidea Branc. . ix, 266
Conoidea Cox, . ix, 19
Conoidea Dh. . ix, 206
Conoidea Drap. iv, 31; ix, 264
Conoidea Hde. . ix, 171
Conoidea West. iv, 118; ix, 306
Conoideus Pfr. i, 62.
Conomphala Pfr. . ix, 337
Conopsis Mor. iv, 22; . ix, 261
Conospira Pfr. iii, 218; ix, 169
Conrauxiana Hde. iii, 209; [ix, 204
Consanguinea C. B. Ad. ix, 90
Consanguinea Fér. vi, 30; ix, 157
Conscendens Cox, vii, 14; ix, 141
Consepta Bens. ii, 90.
Consimilis Pse. iii, 60; . ix, 26
Consobrina Fér. iv, 171; ix, 327
Consobrina Grt. iii, 66; ix, 26
Consona Zgl. iii, 188; . ix, 272
Consors Lwe. iv, 39; . ix, 242
Conspectum Bld. ii, 203; ix, 8
Conspersula Pfr, v, 38; ix, 183
Conspicua Ben. iv, 207; ix, 330
Conspurcata Drap. iv, 12; [ix, 254
Conspurcatella Morel. iii, 50; [ix, 57
Constantiæ H. Ad. viii, 206; [ix, 206
Constantinæ viii, 206; . ix, 206

- Constantinæ Fbs. iv, 129; ix, 324
 Constantior Weinl. v. 26; [ix, 184
 Constricta Boub. iii, 121; ix, 288
 Constricta Pfr. vii, 103; ix, 215
 Constricta Semp. iii, 67; ix, 26
 Constricta West. . ix, 249
Constrictor Hupé, . ix, 166
 Consul Pfr. ii, 89.
 Contaminata Paul. iv, 220; [ix, 332
 Contempta Parr. . ix, 255
 Contermina Sh. iv, 31; ix, 264
 Contigua Pse. iii, 78; . ix, 6
 Continua Pfr. v, 137; . ix, 94
 Contorta Fér. iii, 63; . ix, 26
Contorta Held. ii, 142.
Contorta Muhlf. . ix, 284
Contorta Zgl. . ix, 288
Contortula Fér. . ix, 41
Contortula Kryn. ii, 141.
 Contracostæ Pils. . ix, 199
 Contracta Hutt. iv, 65; ix, 116
 Contracta West. ii, 139.
 Contristata Mouss. ii, 82.
 Conula Pse. ii, 49.
Conulema Stol. ii, 7.
 Conulina Mart. iii, 219; ix, 169
 CONULOPOLITA Bttg. ii, 181.
 Conulus Blf. ii, 58.
 CONULUS Fitz. ii, 11; 172.
Conulus H. Ad. ii, 176.
Conulus Mart. not Pse. ix, 170
 Conus Pils. vi, 79; . ix, 154
 Convallata Bens. ii, 93.
Convexa Fér. . ix, 47
 Convexa Hartm. viii, 131; [ix, 5
 Convexa Mart. . ix, 141
Convexa Raf. . ix, 78
 Convexa Rve. ii, 108.
 Convexiuscula Pfr. ii, 214.
 Convicta Cox, vi, 187; ix, 136
 Convoluta Desh. ii, 88.
 Cookensis Braz. vi, 175; ix, 134
 Cookiana Gmel. iii, 6; . ix, 64
Cookiana Pfr. . ix, 64
 Cooperi W. G. B. viii, 118; [ix, 50
Copei Weth. iii, 144; . ix, 76
 Coppingeri Sm. iii, 42; ix, 41
 Coquandiana Math. . ix, 333
 Coquandi Mor. iv, 125; ix, 322
 Coracis Kob. . ix, 326
Coraliolabris Smith, . ix, 142
 Corallina Mouss. iii, 93; ix, 6
 CORASIA Albers, . ix, 219
 Corax Parr. ii, 136.
 Corcyrensis Bttg. ii, 134.
 Corcyrensis Partsch. iii, 117; [ix, 288
 Cordelia Hutt. viii, 66; ix, 14
 Cordemoyi Nev. ii, 107.
 Cordovana Pfr. iii, 49; ix, 199
 Corduensis Noul. ix, 294.
 Coreanica A. & R. iii, 220; [ix, 204
Coriacea Sandb. . ix, 295
Coriaria Pfr. vi, 132; . ix, 131
 CORILLA H. & A. Adams, [ix, 147
Corisopitensis Dh. . ix, 308
 Cornaria Berth. iii, 239.
Cornea Brum. . ix, 303
 Cornea Drap. iv, 110; . ix, 301
Cornea Hartm. . ix, 267
 Cornea Hedl. viii, 296; . ix, 5
 Cornea Hutt. viii, 75; . ix, 18
 Corneofulva Pfr. viii, 76; ix, 18
 Corneola Cless. . ix, 274
Corneola Hedl. . ix, 299
 Corneoliformis Less. . ix, 307
 Corneovirens Pfr. vi, 136; [ix, 130
 Corniculum H. & J. vi, 291; [ix, 113
 Corniculum Rv. iii, 24; ix, 33
 Cornugiganteum Chemn. vi, [60; ix, 152
Cornumilitare auct. . ix, 100
Coronadoi Hid. vii, 142; ix, 222
Coronaria Lowe. . ix, 244
 Coronata Desh. iv, 34; . ix, 244
 Coronula Lwe. iv, 34; . ix, 245

- Corrosa* Mouss. ii, 35, 43.
Corrugata Gmel. iii, 252; ix, 259
Corrugata Gray, . ix, 273
Corrugata Pfr. . ix, 184
Corrugata Sol. . ix, 293
Corrugata Z. . ix, 331
Corsica Sh. iii, 180; . ix, 273
Corticaria Ph. iii, 43; . ix, 41
Corticicola Cox, iii, 44; ix, 34
CORYDA Albers, . ix, 181
Corylus Reeve, ii, 95.
Corymbus Cr. i, 117; . ix, 20
Corys Bens. iii, 95.
Cosmia Pfr. iii, 106; viii, 135.
Cossmanniana Cr. . ix, 230
Cossoni Let. iv, 148; . ix, 322
Cossurensis Ben. iv, 207; ix, 330
Costæ Ben. . ix, 318
Costaricensis Roth, v, 134; [ix, 191
Costata Müll. viii, 252; ix, 283
Costata Semp. vi, 219; ix, 108
Costella Orb. iii, 41; . ix, 41
Costellifera Möll. viii, 125; [ix, 4
Costerii Eyd. . ix, 230
Costulata Ben. iv, 205; ix, 331
Costulata G.-Aust. ii, 62.
Costulata Hutt. viii, 73; ix, 18
Costulata Kob. . ix, 307
Costulata Marts. . ix, 5
Costulata Mich. . ix, 281
Costulata Mlldff. iii, 266; ix, 47
Costulifera Pfr. i, 120. . ix, 33
Costulosa Zgl. . ix, 255
Costulosus Pfr. i, 63.
Cotinophila Bgt. . ix, 275
Cottiana Poll. iii, 185.
Cottyi Mor. iii, 236; . ix, 250
Cotyledonis Bens. iii, 103; [viii, 135
Couchiana Lea. . ix, 74
Couloni Shuttl. iii, 134; ix, 74
Courquini Bgt. ii, 153.
Cousini Jouss. v, 183; ix, 167
Coutagnei Bgt. . ix, 256
Couturieri Bgt. iii, 229.
Covani E. A. Smith, vi, 44; [ix, 157
Coxenæ Braz. vi, 138; ix, 122
Coxeni Cox, viii, 272; . ix, 122
Coxiana Ang. vii, 13; . ix, 140
Coxi, Crosse, vi, 152; . ix, 133
COXIA Ancey, . ix, 82
Cracherodii Gray, ii, 76.
Cragini Call. iii, 144; . ix, 76
Craspedaria Lowe. . ix, 244
Craspedocheila Ad. iii, 191.
Crassa Mlldff. vii, 125; ix, 220
Crassa Pfr. iv, 144; . ix, 326
Crassicostata Bens. iv, 64; [ix, 116
Crassidens Deb. iv, 137; ix, 324
Crassidens Pfr. . ix, 91
Crassilabris Mlldff. . ix, 220
Crassilabris Mühlf. . ix, 278
Crassilabris Nev. . ix, 275
Crassilabris Pfr. . ix, 98
Crassior Nev. . ix, 322
Crassocarina Mouss. . ix, 234
Crassula Mlldff. . ix, 337
Crassula Phil. viii, 271; ix, 124
Cratera Schum. . ix, 261
Craticulata Lwe. iv, 191; ix, 293
Craverii Poll. ii, 220.
Crawfordi M. & P. viii, 146; [ix, 38
Crebriflammis Pfr. i, 130; ix, 18
Crebriguttata Mart. ii, 69.
Crebristriata Newc. . ix, 200
Crebristriata Semp. ii, 104.
Creedi Cox, vi, 170; . ix, 134
Crema Bgt. . ix, 257
Cremata Hde. iii, 207; ix, [204, 214
Cremnophila Boiss. . ix, 248
Crenea Alb. . ix, 261
Crenella Mont. . ix, 283
Crenicincta G.-Aust. ii, 60.
Crenimargo Kryn. iii, 252; [ix, 259
Crenophila Pfr. iii, 174.
Crenularis Beck, i, 174.
Crenulata Müll. . ix, 263

- Crespigny* Higg. ii, 76.
Cressa West. . . ix, 276
Cressida Gld. iii, 91; . ix, 6
Cretacea Born, ii, 71.
Cretacea Grt. iii, 66; . ix, 25
Cretacea Westerl. . ix, 318
Cretata Brod. vii, 168; . ix, 224
Cretensis Blanc. ii, 192.
Cretica Fér. iii, 239; . ix, 250
Creticola Mörch. . ix, 307
CRETOZONITES Kob. viii, 236.
Creveauxiana Anc. viii, 264; . ix, 95
Cribrata West. . ix, 266
Crimoda Bgt. . ix, 275
Crinigera Bens. iii, 94; . ix, 208
Crinita Sandri, iv, 100; . ix, 302
Crisia Let. & Bgt. . ix, 257
Crispata Ben. iv, 206; . ix, 331
Crispata Costa, . ix, 318
Crispata Fér. v, 72; . ix, 99
Crispolanata Woll. iii, 123; . ix, 289
Crispulata Mouss. . ix, 273
Cristatella Mlldff. . ix, 215
Critica Fér. . ix, 250
CRISTIGIBBA Tap. Can. ix, 112
Croatica Fér. ii, 137.
Croaticus Partsch, ii, 136.
Croftoni Cox, vi, 153; . ix, 133
Crombezi Mill. iv, 111; . ix, 301
Cromyodes Pfr. vii, 130; . ix, 222
Cronkhitei Newc. iii, 21; . ix, 48
Crossei Hid. vii, 156; . ix, 223
Crossei Hid. viii, 134; . ix, 4
Crossei Pfr. i, 67.
Crossei Pfr. ii, 43.
Crotali Cox, ii, 212.
Crouanii Guill. iii, 90; . ix, 5
Crouzilian Fag. . ix, 256
Crucibulum Pfr. vii, 81; . ix, 143
Cruentata Guild. ii, 183.
Crusta Dall, . ix, 185
Crustulum Cox, iii, 90; . ix, 5
Cruzyi Bgt. iii, 198; . ix, 272
Cryophilum Mts. iii, 32; . ix, 8
Crypsidoma Mab. iv, 165; . ix, 327
Crypta Parr. ii, 135.
Cryptaxis Lowe. . ix, 291
Cryptica Brod. vii, 167; . ix, 224
Cryptobidens Sut. viii, 85; . ix, 27
Cryptodon Moric. i, 66.
CRYPTOMPHALUS Agas. ix, 318
Cryptomphalus Nev. ii, 126.
Cryptopila Marts. iii, 211; . ix, 124
Cryptoportica Gld. ii, 116.
Cryptozona Zgl. . ix, 302
Crystallina Dillw. . ix, 283
Crystallina Müll. ii, 138.
CRYSTALLOPSIS Ancey, ix, 220
Crystallus Lwe. ii, 10.
Cubensis Pfr. v, 10; . ix, 187
Cucullus Mts. iv, 28; . ix, 263
Cularensis Bgt. . ix, 275
Culmen Blf. ii, 53.
Culmi Fag. . ix, 256
Culminicola Pons. viii, 234; . ix, 330
Cultellatus Thom. ii, 135.
Cultrata Gld. ii, 125.
Cuma Chier. ii, 144.
Cumberlandiana Lea, iii, 58; . ix, 50
Cumie Calc. . ix, 262
Cumingi Pfr. viii, 39; . ix, 230
Cumingi Pfr. . ix, 224
Cumingii Beck, i, 172.
Cumulus Pfr. ii, 105.
Cunctator Rv. vii, 202; . ix, 227
Cuneus Hde. ii, 219.
Cunninghami Gray, vi, 14; . ix, 159
Cupaniana Calc. . ix, 47
Cupani Calc. . ix, 254
Cuprea Cox, iii, 24; . ix, 340
Cuprea Raf. ii, 185.
Cupulata Pfr. . ix, 93
Curacoæ Brazier, . ix, 34
Curetum West. . ix, 256
Curta Sowb. vii, 192 . ix, 225
Curtisiana Pfr. vi, 168; . ix, 134
Curvidens Pfr. . ix, 97
Curvilabrum Rve. iii, 86; . ix, 4

- Cuspidata* Lewis, ii, 200.
Cussetiensis Bgt. . ix, 267
Cuticula Sh. iv, 201; . ix, 294
Cutisculpta Mlldff. iii, 158;
 [ix, 146
Cuttati Bgt. iii, 229.
Cutteri H. Ad. ii, 88.
Cutteri Pfr. viii, 93; . ix, 28
Cuvieriana Lea ii, 38.
Cuvieri Fér. i, 168.
Cuyamacensis Hemph. . ix, 199
Cuyana Strob. iv, 78; . ix, 198
Cuyoensis Pfr. viii, 47; . ix, 231
Cuyoensis Rve. . ix, 231
Cuzcana Phil. i, 64.
Cyanocephala Pils. . ix, 228
Cyanostoma Mab. vi, 48; ix, 157
Cyclaria Morel. iii, 108; viii, 135
Cyclaspis Bens. iii, 164; ix, 145
Cyclodoma Swains. . ix, 69
Cyclodon W. & B. iv, 26;
 [ix, 261
Cycloidea Alb. ii, 90.
Cyclolabris Desh. iv, 114;
 [ix, 303
Cyclophorella Anc. viii,
 [259; ix, 284
Cycloplax Bens. ii, 129.
Cyclostoma Mke. . ix, 243
Cyclostoma West. . ix, 251
Cyclostomata LeGuill. iv,
 65; ix, 114
Cyclostomoides Pfr. iii, 100;
 [ix, 58
Cyclostomoides Porro, . ix, 249
Cyclostomopsis Lea, . ix, 122
Cyclostremoides Sby. iv,
 [256; ix, 261
Cyclothyra Bttg. . ix, 304
Cyclotrema Ben. ii, 17.
Cygnea Benson, ii, 213; ix, 34
Cyix Bens. ii, 84.
Cymatium Bens. ii, 42.
Cymatodes Pfr. v, 146; ix, 94
Cymbalum Morel. ii, 187.
Cymodoce Cr. vii, 107; ix, 220
Cymotropis Mart. . ix, 137
Cynetarum Malz. . ix, 273
Cyparissias Parr. iv, 11; ix, 254
Cypreophila Newc. iv, 75;
 [ix, 199
Cypria Kob. . ix, 320
Cypria Pfr. ii, 194.
Cypsele Pfr. i, 63.
Cyrena=cyrene.
Cyrenaica Mts. iii, 234; ix, 250
Cyrene Crosse, vii, 78; ix, 143
Cyrniaca Dut. iv, 112; ix, 305
CYRTOCHILUS Sandb. . ix, 311
Cyrtolena Bgt. . ix, 319
Cyrtopleura Pfr. iv, 65; ix, 114
Cysis Bens. ii, 15.
Cysticopsis of authors, . ix, 65
CYSTICOPSIS Mörch. . ix, 186
Cyzicensis Gall. . ix, 256

Dacampi Villa. . ix, 265
Dactylus Brod. . ix, 228
Dædalea Gld. iii, 64; . ix, 27
Dædalocheila Beck, . ix, 68
Daemeli v. Mts. vi, 184; ix, 135
Daghestana Bttg. ii, 220.
Daghestana Parr. iv, 86; ix, 304
Daghoba Blanf. iii, 69.
Daimio Ad. . ix, 214
Daintreei Braz. vi, 134; ix, 130
Dalbertisi Brazier, viii, 295;
 [ix, 31
Dalingensis Aust. ii, 102.
Dalmatica Dh. . ix, 300
Dalmatica Mühlf. . ix, 319
Dalmatina Cl. . ix, 44
Dalmatina Parr. . ix, 300
Damahoyi Pfr. vii, 143; ix, 223
Damarensis H. Ad. iii, 138;
 [ix, 39
Damascenus Gld. . ix, 200
Damnata Brong. . ix, 295
Dampieri Ang. vii, 11; ix, 140
Danæ Pfr. ii, 45.
Dandenongensis Pett. . ix, 34
Danieli Bgt. iii, 230; . ix, 250
Dantei Bgt. . ix, 251
Danubialis Cless. . ix, 274
Daphnica Plat. . ix, 272
Daphnis Brod. vii, 201; ix, 227

- Darjilingensis* Aust. ii, 99.
Darnaudi Jick. . ix, 268
Darnaudi Pfr. iii, 104; ix, 268
Darnleyensis Braz. ii, 181.
Darolli (Let.) Bgt. . ix, 261
Darondeau Soul. ii, 40.
Darwini Braz. vi, 128; ix, 132
Dasilepida Bgt. . ix, 272
Dastagui=*Dastugui*.
Dastugui Bgt. iv, 142; ix, 325
Dataensis Semp. vii, 169; ix, 224
Dautezi Kob. ii, 158.
Dautezi Kob. iii, 248; . ix, 250
Daveyensis Cox, iii, 265; ix, 34
Davidiana Bgt. iii, 24; ix, 250
Davidi Dh. ii, 103; . ix, 205
Dealbata Brod. vii, 119; ix, 219
Dealbata Lwe. iv, 38; ix, 243
Deaniana Ford, vi, 292; ix, 113
Deana Tassy. . ix, 256
Debeauxiana Bgt. iii, 28;
 [ix, 44
Debeauxi Kob. viii, 55; ix, 234
Debeauxi West. . ix, 257
Debettai Ad. iv, 94; . ix, 303
Debettana Ad. ii, 158.
Debilis Pfr. iii, 101; . ix, 58
Debilis West. . ix, 309
Decagyra Phil. iii, 125; ix, 83
Decomplicata Mouss. iii, 63;
 [ix, 26
Decidua Pfr. viii, 71; . ix, 16
Decipiens Bttg. ii, 220.
Decipiens Sowb. vii, 140;
 [ix, 222
Declivis Pfr. ii, 46.
Declivis Sandb. . ix, 295
Declivis Sterki, viii, 251; ix, 283
Decolorata Drouet, ii, 166.
Decolorata Lwe. . ix, 293
Decolorata Pils. vi, 91; ix, 129
Decora A. & R. vii, 133;
 [ix, 222
Decorata Fér. . ix, 228
Decorata Pfr. iii, 225; ix, 336
Decorticata Grt. iii, 40; ix, 35
Decreta Gass. iii, 26; . ix, 33
Decussata Bens. ii, 90.
Decussata Boettger, . ix, 322
Decussata Parr. . ix, 319
Decussatula Pse. iii, 60; ix, 27
Deferiana Bgt. iv, 17; ix, 256
Deflexa Pfr. . ix, 181
Defourii Grat. ii, 70.
Degagei Grt. iii, 65; . ix, 27
Degenerans Mouss. iv, 22;
 [ix, 261
Deidamia Ang. . ix, 140
Deila Bgt. ii, 151.
Deiopeia Ang. iii, 89; . ix, 5
Dejeana Hde. viii, 215; ix, 207
Dejecta Gld. . ix, 77
Dejecta Z. Rm. iii, 246; ix, 252
Dehiscens Westerl. . ix, 320
Dehnei Rm. iii, 225; . ix, 337
Delabris Mouss. iv, 86; ix, 304
Delacourti Mab. Bgt. ix, 266
Delacuri Mab. . ix, 266
Delaminata Ad. . ix, 64
Delavayana Hde. ii, 217.
Delavayana Hde. . ix, 214
Delectabilis Sol. . ix, 281
Delessertiana LeGuill iv, 66;
 [ix, 114
Delibrata Bens, iv, 64; ix, 116
Deliciosa Pfr. vi, 113; ix, 124
Delitescens Shutt. . ix, 73
Delomphala Anc. . ix, 271
Delomphalus Ag. . ix, 45
Delopida Jan. . ix, 273
Delphax Dohrn, viii, 271;
 [ix, 120
Delphinula Lwe. iv, 44; ix, 245
Delphinuloides Lwe. iv, 34;
 [ix, 245
Delpretiana Paul. iv, 243;
 [ix, 319
Delta Pfr. ii, 215; . ix, 19
Deltoidea Simp. viii, 152; ix, 73
Demani Tap.-Can. iii, 26;
 [ix, 35
Demissa Ben. iv, 204; ix, 330
Demissa Binn. ii, 197.
Demolita Hde. . ix, 209
Denansi Kob. iv, 135; ix, 324
Denatale Ben. ii, 157.

- Dendrobia* Crosse, ii, 180.
Dendrophila Mab. iii, 237 ;
 [ix, 258
DENDROTROCHUS Pilsbry,
 [ix, 143
Dennisoni Pfr. v, 44 ; ix, 182
Denotata Fér. . . ix, 77
Dentata Held. . . ix, 287
Dentellaria Auct. . ix, 90
Dentellaria Schum. . ix, 88
DENTELOCARACOLUS Op-
 penh. ix, 294
Denticulata Jay, vii, 131 ;
 [ix, 222
Dentiens Fér. v, 84 ; . ix, 91
Dentifera Binn. iii, 152 ; ix, 77
Dentoni Ford, viii, 285 ; ix, 114
Dentrecasteauxi Sm. vi, 253 ;
 [ix, 120
Densa Ad. & Rv. ii, 42.
Densecostulata Ret. . ix, 272
Denudata Rossm. iv, 98 ; ix, 301
Deobrigana Bgt. . . ix, 275
Depauperata Lwe. iv, 36 ;
 [ix, 241
Depicta Grat. v, 37.
Depilata Ald. . . ix, 274
Depilata Drap. . . ix, 278
Depilata Orsini. . . ix, 301
Depilata Pfr. iii, 174.
Deplana Zgl. . . ix, 302
Depressa Ad. iii, 46.
Depressa Ad. . . ix, 58
Depressa Bgt. . . ix, 263
Depressa Bgt. . . ix, 319
Depressa Bk. . . ix, 262
Depressa Bttg. ii, 143.
Depressa Bttg. viii, 228 ; ix, 303
Depressa Bttg. . . ix, 272
Depressa Bttg. . . ix, 304
Depressa Ckll. . . ix, 50
Depressa Fér. ii, 27.
Depressa Held. . . ix, 307
Depressa Kob. . . ix, 304
Depressa Kob. . . ix, 322
Depressa Mart. . . ix, 141
Depressa Mts. . . ix, 335
Depressa Mlldff. ii, 67.
Depressa Mlldff. . . ix, 224
Depressa Mouss. . . ix, 267
Depressa Paul. . . ix, 301
Depressa Ret. . . ix, 249
Depressa Semp. vii, 149 ;
 [ix, 223
Depressa Stérki, ii, 146.
Depressiformis Pse. . ix, 36
Depressior Pfr. . . ix, 204
Depressula Parr. iii, 256 ; ix, 259
Depsta Cox, iii, 46 ; . ix, 33
Depuyana Pfr. . . ix, 129
Derbentina Andr. iii, 247 ;
 [ix, 249
Derbentina Bttg. ii, 220.
Derbesiana Cr. iii, 63 ; ix, 27
Derbyana Sm. . . ix, 343
Derhyi Cox, viii, 280 ; . ix, 131
Derelicta Cox, . . ix, 34
Derelicta Hde. ii, 217.
Dermatina Sh. v, 50 ; . ix, 180
Dermoi Serv. . . ix, 336
Derogata Rm. iv, 23 ; . ix, 255
Descendens Woll. . . ix, 241
Deschampsiana Hag. . ix, 305
Desculpta Mouss. iv, 167 ;
 [ix, 327
Desertella Jick. iv, 127 ; ix, 335
Deserticola Woll. . . ix, 240
Desertorum Forsk. iv, 127,
 [261 ; ix, 335
Desfontanea Morel. . ix, 325
Desgodinsi Anc. iii, 251.
Desgodinsi Bgt. viii, 194 ;
 [ix, 206
Desgrazii Hombr. & Jacq. ii, 79
Deshayesii Anton. . . ix, 165
Desidens Rang, iv, 83 ; ix, 181
Desiderata Pfr. iii, 96 ; ix, 58
Desilvæ Serv. . . ix, 250
Desmazuresi Crosse. ii, 168.
Desmoulini Far. iv, 111 ;
 [ix, 301
Despecta Gray, iii, 211 ; ix, 204
Desplanchesi Gass. i, 120.
Despreauxii Orb. iv, 25 ; ix, 261
Destituta Charp. . . ix, 252
Detecta Fér. ii, 25.

- Detrita* Hartm. . . ix, 275
Deusta Lwe. . . ix, 258
Devauxi Deb. iii, 240; ix, 249
Devia Gld. iii, 154; . ix, 76
Devia Mouss. iv, 20; . ix, 258
Devians West. . . ix, 252
Devincta Tap.-Can. . ix, 109
Dexia Bgt. . . ix, 250
Dextrorsa G.-Aust. iii, 164;
 [ix, 145]
D'hericourtiana B. iii, 104;
 [ix, 268]
Diabloensis Coop. iv, 74; ix, 199
Diæga Bgt. . . ix, 275
Diaglyptus Pils. . . ix, 22
DIALEUCA Albers, . ix, 182
Diana Brod. viii, 14; . ix, 228
Diaphana Charp. ii, 138.
Diaphana Kryn. ii, 147.
Diaphana Lam. v, 22; ix, 186
Diaphana Lea, ii, 84.
Diaphana Studer. ii, 141.
Diaphanella Kryn. ii, 147.
Diarbekirana Gall. . ix, 333
Dibothrion Friv. . . ix, 279
DIBOTHRION Pfr. . . ix, 278
Dicallistodon Bgt. . ix, 325
Dichroa Pfr. iii, 208; . ix, 204
Dichromolena Bgt. . ix, 319
Dichrozona Mart. . ix, 304
Dictæa Mart. viii, 191; ix, 277
Dictyodes Pfr. iii, 95; ix, 53
Dictyonina Euth. viii, 134;
 [ix, 53]
Didiera Bgt. . . ix, 251
Didrichsenii Mörch. ii, 126.
Didyma Mhl. . . ix, 302
Didyma West. . . ix, 249
Dieckmanni Mss. iii, 179;
 [ix, 273]
Diemenensis Cox, iii, 24; ix, 34
 338
Diensis Malz., viii, 162; ix, 255
Dierama Pfr. ii, 181.
DIERAMA Pfr. ii, 11, 181.
Diespiter Dall, . . ix, 185
Difficilis Pfr. vii, 151; ix, 223
DIGLYPTUS Pilsbry, . ix, 22
Digna Mouss. iv, 186; . ix, 328
Digonophora Anc. . ix, 36
Dikrangensis G.-A. ii, 66.
Dilatata Ben. . . ix, 262
Dilatata Pfr. v, 73; . ix, 99
Dilatata Pfr. vii, 193; . ix, 225
Dilatata West. . . ix, 266
Dillwyniana Pfr. . ix, 335
Diloricata Bgt. . . ix, 257
Diluta Pfr. iv, 80; . ix, 198
Dimera Jonas, vii, 156; ix, 223
Dimidiata Hde. . . ix, 211
Dimidiata Mlldff. . ix, 170
Dimidiatus Pfr. i, 253.
Diminuta C. B. Ad. iii, 99;
 [ix, 58]
Dimorpha Pfr. ii, 211; ix, 15
Dinara Stentz. ii, 134.
Dinarica Bgt. . . ix, 300
Diniensis Ramb. . . ix, 254
Dinodeomorpha Tap.-Can.
 [vi, 254; ix, 120]
Diodon Parr. iii, 171; ix, 279
Diodonta Mühlf. iii, 116; ix, 287
Diodonta Say, . . ix, 76
Diodontostoma Bgt. . ix, 287
Diomedes Braz. vii, 54; ix, 142
Dionacea Dh. . . ix, 224
Dioscoricola C. B. Ad. ii,
 174; ix, 37, 58
Diplodon Bens. iii, 69.
Diplogonia Dohrn. v, 190;
 [ix, 166]
Diplomphala Möll. iii, 124;
 [ix, 287]
DIPLOMPHALUS C. & F. i, 113
Diptychia Mlldff. iii, 158;
 [ix, 146]
Dirphica Blanc. iii, 192; ix, 272
Discina Lwe. iv, 45; . ix, 243
Discobolus Sh. iii, 123; ix, 289
DISCOCONULUS Kob. ii, 172.
Discodoma Swains, . ix, 92
Discoidalis Stol. ii, 109.
Discoidea Ad. ii, 201.
Discoides Less. iii, 58.
Discolor Fér. v, 60; . ix, 97
Discordialis Fér. vi, 252; ix, 120

- Discordice Grt. ii, 122.
 Discrepans Pfr. iii, 9; viii, 55.
 Discrepans Pfr. . . ix, 65
 Discrepans Pils. viii, 177; ix, 248
 Discrepans Tib. . . ix, 252
 DISCULA Lowe, . . ix, 242
 DISCULELLA Pils. . . ix, 243
 Disculus Dh. v, 15; . ix, 186
Discus Albers, . . ix, 1
Discus Dh. vi, 230; . ix, 109
Discus Fitz. . . ix, 45
Discus Mlldff. ii, 104.
Discus Pfr. i, 66.
Discus Pfr. ii, 114.
 Dismathia Nev. . . ix, 250
 Dispar Braz. iii, 59; . ix, 27
 Dispersa Gass. iii, 45; . ix, 33
 Dissecta v. Mart. viii, 151; . ix, 74
Dissidens Desh. ii, 206.
 Dissimilis Orb. iii, 48; . ix, 41
 Dissimilis Semp. viii, 220; . ix, 204
 Dissita Dh. v, 71; . ix, 99
 Distans Bl. & W. iv, 93; ix, 303
 Distans Pse. iii, 60; . ix, 27
 Distensa Mouss. iv, 175; ix, 327
 Distincta Pfr. ii, 30.
 Distorta Hde. ii, 217.
 Distypa West. . . ix, 267
 Diurna Bgt. iii, 193; . ix, 266
 Divaricata Kobelt, . ix, 344
 Divesta Gld. iii, 152; . ix, 77
 Divisa Fbs. ii, 39.
 Djamnensis Kob. . . ix, 343
 Djarica Bgt. . . ix, 261
 Djebbarica Bgt. iii, 236; ix, 249
Djerbanica L. & B. . ix, 336
Djulfensis Mouss. . ix, 333
 Djurjurenensis Deb. ii, 195.
 Dobrudschæ Parr. . ix, 252
 Dobruschæ Cless. . ix, 301
 Doderleiniana All. . ix, 315
 Doenitzii Reinh. ii, 171.
 Dohrniana Pfr. ii, 83.
 Dohrni Paul. viii, 173; ix, 255
Dohrni Strebel, ii, 185.
Dolata Fér. . . ix, 91
Doliolum Gredl. . . ix, 171
Dolium Hartm. . . ix, 226
 Dolomitica Deb. . . ix, 251
 Dominicensis Pfr. v, 70; ix, 99
 Dominula Tap.-Can. vi, 293; . ix, 113
 Donnaisabellæ Ang. vii, 71; . ix, 143
Donatii Berth. . . ix, 336
 Donata Hagenm. . . ix, 305
 Donovanii Pfr. ii, 40.
 Dorani Aust. ii, 99.
Dorcasia Auct. . . ix, 200
Dorcasia Binn. . . ix, 67
 DORCASIA Gray, . . ix, 172
 Dorfeuilliana Lea, iii, 133; . ix, 73
Dorfeuilliana Pfr. . ix, 74
 Dorgaliensis Mts. . . ix, 330
Doriæ Dohrn, . . ix, 104
Doriæ Paul. iv, 117; . ix, 307
Doriæ Tap.-Can. ii, 218.
 Dormiens Ben. iii, 252; ix, 259
 Dormitans Hde. iii, 222; ix, 170
 Dorri Wattebl. ii, 220.
 Doubletti Bgt. . . ix, 325
 Doumeti Bgt. . . ix, 259
 Downieana Bld. iii, 153; ix, 77
 Dragorichi Zel. iii, 249; ix, 249
Draparnaldi Beck, ii, 149.
Draparnaudia M.-T. . ix, 307
 Dravica Serv. . . ix, 307
 Draxeleri Zel. . . ix, 266
 Drepanensis Huet. iv, 204; . ix, 330
Drepanostoma Bk. . ix, 287
 DREPANOSTOMA Porro, ix, 287
 Dringi Pfr. vi, 186; . ix, 136
 Drouetiana Morel. iv, 197; . ix, 293
 Druentina Bgt. . . ix, 275
 Dryanderensis Cox, iv, 66. . ix, 114
 Dryas Brod. viii, 49; . ix, 231
 Dryope Brod. vii, 100; ix, 215
Dschulfensis Dub. . ix, 333
Dschulfensis Bgt. iv, 228; ix, 333
Dubia Ben. ii, 189.

- Dubia Cless. . . ix, 274
Dubia Hartm. . . ix, 252
 Dubia Taylor, ii, 51.
 Dubiosa Pfr. vii, 135; . ix, 222
 Dubisiana Cout. . ix, 274
 Duboisii Charp. ii, 192.
 Dubreili Serv. . ix, 267
 Dubreuili Cless. ii, 139.
 Ducalis Anc. vi, 199; . ix, 103
 Ducani Cox, iii, 261, 46; ix, 13
 Duclosiana Fér. v, 19; ix, 186
 Ductilis Pfr. ii, 169.
 Duesmensis Loc. . ix, 275
 Dufresnii Leach, . ix, 163
 Dumeticola Bens. iii, 106; viii,
 135.
 Dumivaga Morel. iv, 17; ix, 257
 Dumontiana Bgt. ii, 154.
 Dumonti Pfr. viii, 42; . ix, 230
Dumonti Mort. . ix, 304
 Dumorum Bgt. . ix, 204
 Dunkeri Pfr. v, 174; . ix, 95
 Dunkiensis Forbes, iii, 215;
 [ix, 130
 Dunnia Gray, i, 126.
 Dupetithouarsi Dh. iv, 71;
 [ix, 199
 Duplocincta Mart. viii, 216;
 [ix, 204
Duplicata Lwe. . ix, 242
 Duplicata Mouss. iv, 31; ix, 264
 Duponti Morel. ii, 21.
 Dupotetiana Terv. iv, 138;
 [ix, 325
 Duralensis Cox, vi, 141; ix, 130
 Durandoiana Bgt. ii, 154.
 Duranti Newc. ii, 208.
 Dura Pfr. ii, 45.
 DURGELLA Blf. ii, 8, 111.
 Durieuri Moq. iii, 236; ix, 249
 Duriezi Deb. . ix, 307
 Duroi Hid. iv, 128; . ix, 335
 Dussertiana Bgt. iii, 177; ix, 273
 Dutaillyana Mab. ii, 158.
 Duvallii Petit. vi, 41; . ix, 157
 Duveyrieriana Bgt. . ix, 256
 Dvitiija Semp. ii, 29.
 Dyeri Petterd, ii, 169.
 Dyrrachiensis Bgt. iv, 30; ix, 263
 Dysmica West. . ix, 252
 Dysoni Shuttl. iii, 132; ix, 74
 Eas Dohrn, ii, 218.
Eastbournensis B. & P. ix, 34
 Eastlakeana Mlldff. ii, 104.
 Eastlakeana Möll. vi, 12; ix, 290
Eburnea Hartm. ii, 138.
 Eburnea Rve. viii, 20; . ix, 228
 Ebusitana Hid. . ix, 325
Ecarinata Mlldff. . ix, 224
 Echinoderma Woll. iv, 34;
 [ix, 242
 Echinophora Fér. vi, 71;
 [ix, 153
 Echinulata Lwe. iv, 33; ix, 242
 Eddystonensis Rve. vii, 64;
 [ix, 142
Edentata Mart. . ix, 111
 Edentata Samp. viii, 154;
 [ix, 76
 Edentata West. . ix, 287
 Edentilabris Pils. . ix, 76
 Edentula Drap. iii, 171; ix, 278
Edentula W. G. B. . ix, 76
 Edetanorum Serv. . ix, 257
 Edgariana Lea, iii, 141; ix, 78
 Edgarianus Bens. i, 179.
 Editha A. Ad. viii, 204; ix, 170
 Edroea Bgt. . ix, 320
 Edvardsi Bld. iii, 141; ix, 78
Edwardsi Cox, . ix, 135
 Efasciata West. . ix, 307
 Efferata Mouss. iv, 145; ix, 325
Effulgens Blanf. ii, 97.
 Effusa Pfr. viii, 31; . ix, 229
 Effusa Pfr. ii, 163.
 Egbertina Mart. ii, 46.
Egena Gld. ii 174.
 Egena Say, ii, 173.
 Egenula Morel. ii, 127.
 Egesta Gray, iii, 23; . ix, 33
 Egregia Dh. vi, 210; . ix, 104
 Ehingensis Klein, . ix, 310
 Ehrenbergi Roth. . ix, 335
 Eichwaldi Pfr. iv, 86; . ix, 304
 Ekongensis Ang. ii, 34.

- Elachia* Bgt. iii, 28; . ix, 44
Elachystoma Mart. . ix, 343
Elaps Dohrn, v, 196; . ix, 167
Elata Borch. ii, 149.
Elata F.-B. iv, 29; . ix, 262
Elatior Ad. iii, 46.
Elatior Mts. iii, 210; . ix, 204
Elatior Weinl. & Mts. iii, 97;
 [ix, 58
Elaverana Bgt. . ix, 275
Elderi Bedn. viii, 278; ix, 131
Electra Semp. iii, 86; . ix, 6
Electrica Rve. viii, 53; ix, 231
Electrina Gld. ii, 153.
Electrina Jacq. ii, 112.
Elegans Bttg. ii, 192.
Elegans Flem. . ix, 254
Elegans Gmel. . ix, 262
Elegans Semp. viii, 21; ix, 228
Elegans Strebel, ii, 183.
Elegantissima Pfr. iv 52; ix, 209
Elegantula Jan. . ix, 243
Elegantula Pfr. ii, 204.
Elevata d'Orb. ii, 175.
Elevata Mlldff. vi. 230; ix, 109
Elevata Say, iii, 148; . ix, 77
Elevatoconica C. & F. ix, 190
Elia Bttg. . ix, 288
Eliaca Kob. . ix, 303
Elimberrisiana Loc. . ix, 256
Elisæ Anc. viii, 95; . ix, 27
Elisma Leach, . ix, 263
Elisus Hedl. viii, 292; ix, 141
Elithia L. & B. . ix, 250
Elizabethæ Semp. vii, 117;
 [ix, 219
Elleryi Braz. ii, 179.
Ellioti Kob. . ix, 322
Ellioti Redf. ii, 161.
Ellipsostoma Pfr. v, 173; ix, 95
Ellipsostoma Pilsbry, . ix, 199
ELONA H. & A. Adams, ix, 307
Elongata Bgt. iv, 240; ix, 319
Elongata G.-Aust. ii, 63.
Elongata Hedl. viii, 294; ix, 164
Elongata Mlldff. . ix, 231
Ema Bgt. . ix, 325
Emarginata Gundl. v, 64;
 [ix, 97
Embia Bgt. iv, 140; . ix, 325
Embrechtiana Mouss. vi, 275
 [ix, 111
Embritha Mab. iv, 165; ix, 327
Emensus Aust. . ix, 209
Emiliana Pfr. ii, 58.
Eminens West. viii, 180; ix, 259
Emma Pfr. iv, 53; . ix, 209
Emoriens Gred. iii, 158; ix, 146
Empeda Mab. iv, 170; ix, 327
Encyæ Serv. . ix, 266
Endeavorensis Braz. . ix, 114
ENDODONTA Alb. . ix, 20
ENDODONTIDÆ Pils. ix, xxviii.
Endoptycha Mart. vi, 282;
 [ix, 112
Enfidana L. & B. iii, 260; ix, 260
Engaddensis Bgt. iv, 253;
 [ix, 320
Engonata Shuttl. iii, 43; ix, 47
Enhalia Bgt. iii, 243; . ix, 252
Enica L. & B. viii, 182; ix, 259
Enisa Blf. ii, 45.
Enniensis Gredl. . ix, 283
Ensarcosoma Serv. . ix, 319
Ensifera Mouss. ii, 199.
Entarara Let. & Bgt. . ix, 251
ENTODINA Anc. . ix, 342
Entodonta Pfr. iii, 126; ix, 83
Entomostoma H. & J. iii, 79;
 [ix, 6
Eoa Crosse, vi, 98; . ix, 214
Epetrima M. & P. viii, 146;
 [ix, 38
Ephabus Say, . ix, 76
Ephedrophila Mab. iv, 155;
 [ix, 327
Ephora Mab. iv, 173; . ix, 327
Epidermia Ant. iii, 42; ix, 41
Epiglottidea Bk. . ix, 337
EPIGLYPTA Pils. viii, 133.
EPIPHALLOGONA, ix, xxxiii.
EPIPHRAGMOPHORA Dör.
 [ix, 193
Epirotica Mouss. . ix, 274

- Episema* (B.) Serv. . ix, 266
Epistilia Swains, . ix, 58
Epistyla Swains, . ix, 58
Epistylioides Fér. iii, 6; ix, 64
Epistyliulum Ad. ii, 174; [ix, 65
Epistylium Dillw. . ix, 64
Epistylium Pfr. . ix, 64
Epixantha Pfr. . ix, 205
Epsilon Pfr. . ix, 33
Equestrata Moric. v, 151; [ix, 94
Equitum Bgt. . ix, 320
Erateina M. & P. viii, 137; [ix, 38
Ercica Ben. ii, 151.
ERCTELLA Monts. . ix, 318
Erdeli Roth. iii, 30; . ix, 47
Erdmanni Schm. & Bttg. ix, 290
Erecta Hartm. . ix, 274
Erecta Mouss. v, 162; . ix, 95
Erema Bgt. iv, 18.
Eremia Auct. . ix, 334
EREMINA Pfeiffer, . ix, 334
Eremita Sut. viii, 103; . ix, 33
Eremophila Boiss. iii, 242; [ix, 248
Eremophila Kob. . ix, 334
Erepta Alb. ii, 5.
Ereta Paul. iv, 92; . ix, 302
Ergilensis Gall. . ix, 333
Erica DaC. . ix, 252
Ericetella Jous. iii, 243; ix, 252
Ericetorum Müll. iii, 245; [ix, 252
Erigone Alb. . ix, 117
Erigone Gray, iii, 37; . ix, 9
Erinaceus Pfr. vi, 251; . ix, 120
Erinna Mörch. . ix, 334
Erithrocheila Sul. viii, 189; [ix, 250
Erjavecii Brus. ii, 142.
Erjavecii Brus. . ix, 273
Erjavecii Cless. iii, 172; ix, 278
Erjavecii Cless. . ix, 301
Erjavecii Kobelt, . ix, 322
Erkellii Kob. iii, 243; . ix, 248
Eros Angas, vii, 70; . ix, 143
Errans Ad. iii, 98; . ix, 58
Errata Aust. ii, 100.
Erratica Heude. ii, 28.
Erronea Alb. iii, 157; . ix, 148
Erubescens Lwe. iv, 191; ix, 293
Erubescens Semp. vii, 170; [ix, 221
Erycina Jan. . ix, 330
Erymanthia Kob. . ix, 303
Erythræa West. . ix, 251
Erythromorpha Mab. vi, 51; [ix, 157
Erythronixia Bgt. . ix, 337
Erythrospira Mildff. vii, 137, [ix, 222
Erythrostoma Ph. . ix, 337
Esau Gredl. viii, 158; . ix, 209
Escheriana Mss. iv, 230; ix, 333
Esnorca Let. . ix, 251
Espiloca (Rav.) Bld. iii, 136; [ix, 73
Esserana Bgt. . ix, 257
Estella Orb. iv, 78; . ix, 198
Eta Pfr. . ix, 33
Etæma Let. & Bgt. . ix, 251
Ethelema Mab. iv, 163; ix, 327
Etheridgei Braz. vi, 156; ix, 133
Etrusca Iss. . ix, 285
Etrusca Kob. . ix, 301
Etrusca Paul. ii, 139.
Euacanthinula West. . ix, 280
EUADENIA . ix, 175
Euages Bttg. iii, 201; . ix, 272
Euboea Parr. . ix, 303
Eubœica Kob. ii, 134.
Eubœica Kob. . ix, 272
Eucalia Hagenm. . ix, 257
Eucalypta Mab. iv, 154; ix, 327
Eucampylea West. . ix, 299
Eucana Hagenm. . ix, 251
Eucesta Bgt. . ix, 251
Eucestella Bgt. . ix, 251
Eucharis Dh. ii, 130.
Euchroes Pfr. vii, 23; . ix, 141
Euchromia Bgt. . ix, 325
Eucineta Bgt. . ix, 325
Euclasta Martens, . ix, 54
Euclasta Shutt. iii, 97; ix, 58

- Euclastolena* Mab. . ix, 275
Eucochlias Theob. . ix, 101
Euconulus Kob. ii, 172.
Eucorea Bgt. . ix, 257
Eucyæ Serv. iii, 204.=encyæ.
Eudædalæa Bgt. ii, 143.
Eudeli Dh. ii, 25.
Eudora Ang. iii, 88; . ix, 5
EUDOXUS Alb. . ix, 229
Euetha Bgt. . ix, 251
Eufidana=enfidana . ix, 260
Euganea Stab. iv, 91; . ix, 301
Eugastoria Bgt. . ix, 326
Eugenia ALB. . ix, 136
Eugenia Pfr. iv, 221; . ix, 331
Euglyptolena Bgt. . ix, 325
Eugoniostoma Bgt. . ix, 259
EUHADRA Pilsbry, . ix, 212
Euhyalina Alb. ii, 10.
Euiberus West. . ix, 328
Eulaba Bgt. iii, 239.
Eulasia Westerl. . ix, 330
EULOTA Hartm. . ix, 200
Eulotella Mouss. . ix, 202
Eumacta M. & P. viii, 135.
Eumæus Lwe. . ix, 254
Eumenes West. viii, 199; ix, 169
Eumona Let. & Bgt. . ix, 250
Euomphalia West. . ix, 264
Euomphalus Blf. iii, 32; ix, 44
Eupæcilia Bgt. . ix, 325
EUPARYPHA Hartm. . ix, 335
Euparypha Authors. . ix, 193
Euphacodes Malz. . ix, 260
Euphemia Leach. . ix, 284
Euphorca Bgt. iii, 230; . ix, 250
Euphorcella Pech. . ix, 251
Euphorcopsis Let. . ix, 251
Euphratica v. Mts. iv, 240; [ix, 319
EUPLECTA Semp. ii, 6, 46.
Eupyramis L. & B. . ix, 263
Eurabdota Bgt. ii, 155.
EURYCAMPYA Martens, ix, 180
Eurychila C. & F. vi, 301; [ix, 156
EURYCRATERA Beck, . ix, 100
Eurycratera H. & A. Ad. ix, 151
Eurydice Gld. iii, 90; . ix, 6
Euryomphala Bgt. ii, 123.
Euryomphala Herrm. . ix, 48
Euryomphala Pfr. ii, 187.
EURYPUS Semp. ii, 8, 110.
Eurystoma Alb. . ix, 114
Eurystyla Anc. . ix, 158
Eurythmia Hartm. . ix, 250
Euryzonus Pfr. . ix, 230
Eusarca Anc. . ix, 251
Eusarcoinæ Anc. . ix, 251
Eusepia Serv. . ix, 266
Euspira Pfr. ii, 207.
Eustilba Bgt. ii, 140.
Eustoma Pfr. vi, 252; . ix, 120
Eustrapa Bgt. . ix, 325
Eustrieta Bgt. iv, 13; . ix, 255
Eustrophes Br. iii, 49.
Euterpe Pfr. ii, 131.
Euthymeana Loc. . ix, 251
Euthyomphala Gall. . ix, 333
Eutropis Shutt. iv, 36; . ix, 289
Euxina Cl. iii, 231; . ix, 250
Evandaleana Pfr. vi, 142; [ix, 131
Evanesceus Brod. viii, 20; [ix, 228
Eva Pfr. vii, 78; . ix, 143
Evenosi Bgt. . ix, 251
Everardensis Bedn. viii, 277; [ix, 131
Everetti H. Ad. iii, 211; ix, 124
Evergasta Mab. iv, 171; ix, 327
Evergeta Mab. . ix, 327
Everia Mab. iii, 123; . ix, 289
Exacta Pfr. vi, 250; . ix, 119
Exæquata Gld. ii, 114.
Exagitans Cox, iii, 46; . ix, 33
Exalbida Wood, . ix, 293
Exaltata Pfr. iii, 76; . ix, 5
Exanimata Coop. . ix, 200
Exanthematica v. Mts. . ix, 150
Exarata Pfr. iv, 73; . ix, 199
Exarata Wieg. ii, 21.
Excavata Bean, ii, 153.
Excavata H. & J. . ix, 24
Excellens Pfr. v, 120; . ix, 93
Excelsa Cless. . ix, 307

- Excentrica* Pfr. ii, 105.
Excentrica Sterki, viii, 249; [ix, 283
Exceptiuncula Fér., vi, 289. [ix, 112
Excisa (Selenites) Pfr. iii, 42.
Exclusa Fér. iii, 85; . ix, 5
Excoriata Mart. vi, 22; ix, 156
Excrescens Mouss. ii, 124.
Exdeflexa Pils. v, 198; ix, 181
Exigua Ph. iii, 43; . ix, 41
Exigua Stimp. ii, 203.
Exilis Chemn. ii, 84.
Exilis Pfr. ii, 38.
Eximia Dup. iv, 125.
Eximia Pfr. iv, 75; . ix, 192
Exocarpa Cox, vi, 139; . ix, 131
Exoleta Binn. iii, 151; . ix, 77
Exornata Dh. iv, 198; . ix, 293
Exornata Parr. . ix, 325
Expallescens Ziegl. iv, 124.
Expansa Cless. . ix, 274
Expansa Pfr. vi, 298; . ix, 113
Expansilabris Mlldff. vii, [126; ix, 220
Expansilabris Sandb. . ix, 311
Expeditionis Cox, iii, 214; [ix, 130
Explanata Ben. iv, 204; ix, 330
Explanata Müll. iii, 255; ix, 259
Explanata Q. G. ii, 39.
Explanata Schr. iv, 117.
Expolita Desh. ii, 91.
Exposita Mouss. ii, 47.
Exquisita Desh. ii, 146.
Exserta Mts. . ix, 259
Exserta Pfr. ii, 215.
Exserta West. . ix, 259
Exstincta Ramb. . ix, 300
Exsultans Tap.-Can. vii, 31; [ix, 141
Extensa Müll. vii, 114; ix, 221
Extensa Pfr. . ix, 99
Extincta Tap.-Can. vi, 195; [ix, 155
Extricanda Tap.-Can. . ix, 142
Extrusa T.-C. viii, 218; ix, 204
Exulata Smith, ii, 204.
Exul Theob. ii, 93.
Eydouxii Hid. vii, 123; . ix, 220
Eyrei Ad. & Ang. iv, 66; ix, 114
Egryomphala Beck, . ix, 48
Egrystoma Mörch. iv, 69.
Ezquerriana Bgt. . ix, 324
Faberiana Möll. vi, 10; ix, 290
Fabrefacta Pse. iii, 45; ix, 25
Fabrei Crosse, i, 115.
Fabricii Beck, ii, 173.
Fabriesi Deb. viii, 168; ix, 250
Faceta Aust. ii, 100.
Faciola Dr. . ix, 206
Facta Newc. iv, 77; . ix, 200
Fagoti Bgt. . ix, 307
Fagoti West. . ix, 252
Faidherbiana Bgt. iii, 189; [ix, 272
Falcata Blf. ii, 58.
Falconeri Rve. vi, 75; . ix, 164
Fallaciosa Fér. iv, 64; . ix, 116
Fallax Auct. iii, 143; . ix, 76
Fallax, Say, . ix, 76
Farafanga Ang. vi, 73; ix, 153
Farafanganensis C. & F. ix, 153
Fargasiana Hde. ii, 217.
Farinesiana Bgt. ii, 149.
Farquhari M. & P. viii, 147; [ix, 38
Farrisi Higg. . ix, 198
Farrisi Pfr. iv, 77; . ix, 198
Fascelina Z. Gred. . ix, 302
Fasciata Blv. . ix, 93
Fasciata Cr. & Fisch. ii, 186.
Fasciata G.-A., iv, 64; . ix, 116
Fasciata Mart. . ix, 112
Fasciata Mouss. . ix, 248
Fasciata Paul, . ix, 271
Fasciata Pils. . ix, 229
Fasciata West, . ix, 266
Fasciatus Penn. . ix, 264
Fasciola Drap. iii, 208; ix, 206
Fasciolata Less. . ix, 112
Fasciolata Loc. iii, 251.
Fasciolata Moq. . ix, 255
Fastigiata DeK. . ix, 73
Fastigiata Hutt. ii, 63.

- Fastigans* Say, iii, 130; . ix, 73
Fastosus Alb. vi, 79; . ix, 154
Fatigata Cox, iii, 76; . ix, 5
Fatigiata Say, . ix, 73
Fatua Pfr. . ix, 9
Faucicola Hagen. . ix, 305
Faudensis Sullioti, . ix, 331
Faunus Brod. vii, 203; . ix, 227
Faunus Phil. v, 137; . ix, 94
Fausta Lwe. iv, 40; . ix, 241
Faustina Zgl. iv, 95; . ix, 302
Favirensis Parr. . ix, 302
Febigeri Bld. . ix, 73
Febrilis Blf. ii, 55.
Feburiana Auct. . ix, 302
Feddeni Blanf. iii, 163; . ix, 145
Fedtschenkoi Mart. iii, 249; . ix, 255
 [iv, 9; ix, 255
Fedtschenkopsis Anc. iii, 251.
Feisthameli Hupé, v, 187; . ix, 167
Feneriffensis H. Ad. ii, 130.
Fenestrata Cox, . ix, 19
Fenestrata Sowb. vii, 192; . ix, 225
Fera Bgt. . ix, 256
Ferdinandi Serv. . ix, 275
Feredayi Sut. viii, 74; . ix, 18
Ferguson Bld. iii, 57; . ix, 50
Ferguson H. Ad. vii, 32; ix, 141
Ferianica Let. & Bgt. . ix, 251
Fernandez Hid. viii, 202; . ix, 170
Fernshawensis Pet. ii, 124; . ix, 13
Feroeli (B.) Serv. . ix, 307
Ferrea Morse, ii, 201.
Ferretiana Bgt. iii, 190; ix, 268
Ferrieziana Crosse, i, 118.
Ferruginea Lea, . ix, 222
Ferussaci C. & J. . ix, 325
Ferussaci Less. vii, 30; ix, 141
Ferussaci Pfr. . ix, 141
Fessonia Ang. iii, 79, . ix, 6
Festinans Shuttlw. ii, 160.
Festiva Don. vii, 134; ix, 222
Festiva Lwe. . ix, 337
Fibula Brod. vii, 94; . ix, 215
Fibula Wood, . ix, 264
Ficta Pse. iii, 62; . ix, 25
Fictilis Brod. viii, 47; . ix, 231
Fictilis Lwe. iv, 38; . ix, 243
Ficum Mühlf. . ix, 32
Fidelis Gray, iv, 69; . ix, 199
Fiesolensis Fag. . ix, 257
Figulina Parr. iv, 247; ix, 320
Filaris Val. vii, 122; . ix, 220
Filia Mouss. iii, 15; . ix, 234
Filiceti Beck, ii, 112.
Filicina Schm. iii, 176; ix, 273
Filicosta Pfr. v, 30; . ix, 184
Filimargo (Z.) Rm. iii, 251; . ix, 259
Filippina Hde. viii, 214; ix, 207
Filiola Fér. iii, 38; . ix, 35
Filocincta Hde. ii, 219.
Filocincta Pfr. ii, 46.
Filocostata Pse. iii, 60; . ix, 27
Filograna Villa, . ix, 250
Filosa Desh. . ix, 322
Fimbriata Bgt. iii, 12; ix, 234
Fimbriata Chier. . ix, 255
Fimbriatus Weth. ii, 200; . ix, 52
Fimbriosa Mart. iii, 158; ix, 146
Finitima Dh. . ix, 73
Finitima Fér. . ix, 288
Finitima Mor. iii, 241; ix, 259
Finschiana Mts. . ix, 205
Firmostyla Mouss. ii, 125.
Fischeri Gass. i, 121.
Fischeri Hid. viii, 29; ix, 228
Flammigera Pfr. . ix, 18
Flammula Semp. viii, 271; . ix, 229
FLAMMULINA Mart. ix, 10, . ix, 338
 [17, 338
Flattersiana Anc. . ix, 307
Flatura G.-A. ii, 64.
Flava Hemph. . ix, 199
Flava Terver, . ix, 274
Flaveola Kryn. . ix, 266
Flaveola Mts. . ix, 112
Flavescens Hedl. vi, 151; . ix, 133
Flavescens Parr. . ix, 47

- Flavescens* (Wieg.) Pfr. iv, [75; ix, 68
Flavida Plat. . ix, 272
Flavida Zieg. . ix, 47
Flavidula Mart. vi, 288; ix, 112
Flavolimbata Bttg. iii, 201; [ix, 266
Flavopicta Mldff. . ix, 342
Flavopurpurea Hde. ii, 216.
Flavovirens D. & M. . ix, 303
Flemingi Pfr. i, 175.
Fleurati Bgt. iv, 129; . ix, 324
Flexilabris Pfr. vii, 49; ix, 140
Flexuosa Pfr. vi, 249; ix, 119
Flindersi Ad. & Ang. . ix, 131
Flocculus Mor. . ix, 47
Floodi Brazier, iii, 46; ix, 13
Flora Pfr. i, 64.
Florentia Pons. viii, 161; [ix, 255
Florentina Fag. . ix, 256
Floresiana v. Mts. . ix, 136
Floridana Hemph. . ix, 73
Florida Sowb. vii, 177; ix, 225
Florulifera Rve. . ix, 73
Flosculus Cox, viii, 77; ix, 339
Fluctuata C. B. Ad. . ix, 89
Fluctuosa Lwe. iv, 198; ix, 293
Fluminensis Lang. . ix, 318
Foderiana Bgt. ii, 158.
Fodiens Pfr. iii, 212; . ix, 204
Fodinalis Tate, viii, 277; ix, 131
Foedata Hagenm. . ix, 250
Foetens C. Pfr. iv, 93; ix, 303
Foetens Stud. . ix, 303
Fœtida Stark. ii, 145.
Fogoensis Dohrn, iv, 193; [ix, 294
Folicola Hedley, . ix, 141
Folini Morel. ii, 51.
Foliorum Fag. . ix, 251
Folliculata Risso. . ix, 276
Follis Fer. vi, 74; . ix, 153
Fontainei Colb, . ix, 274
Fontenilli Mich. iv, 100; ix, 302
Footei Stol. iv, 64; . ix, 116
Forabilis Bens. ii, 110.
Forbesi Cox, . ix, 133
Fordei Braz. . ix, 338
Fordiana Pils. v, 141; . ix, 94
Foremaniana C. B. Ad. iii, [7; ix, 64
Foremaniana Rve. . ix, 64
Forensis Woll. iv, 199; ix, 293
Formosa Bgt. ii, 51.
Formosa Fér. v, 90; . ix, 91
Formosa Wood, . ix, 224
Formosensis Pfr. vi, 112; [ix, 214
Fornicata Gld. iii, 27.
Forrestiana Ang. vi, 182; [ix, 131
Forskali Ehr. . ix, 335
Forsteriana Pfr. vi, 127; ix, 132
Forsythi Kob. . ix, 331
Forsythi Paul. iv, 223; ix, 332
Fortis C. B. Ad., Rv. . ix, 90
Fortunata Parr. . ix, 302
Fortunata Sh. iii, 123; ix, 289
Fortunei Pfr. iii, 208; ix, 204
Fourousi Bgt. iii, 194; ix, 266
Foullioyi LeGuill. ii, 87.
Fouquei Let. iii, 250.
Fouresi Morl. . ix, 124
Foveata Pfr. ii, 20.
Foveolata West. . ix, 249
Fradiniana Bgt. . ix, 274
Fragilis Hemph. viii, 117; [ix, 50
Fragilis Hutt. ii, 103.
Fragilis Pfr. . ix, 58
Fragilis Sowb. vii, 129; ix, 221
Fragillima Mouss. ii, 78.
Fragrans Paul. ii, 189.
Franciscana Gredl. ii, 67.
Franciscanorum Gred. viii, [217; ix, 124
Franki Coop. . ix, 199
Franklandiensis Fbs. iii, [109; viii, 147.
Frapplieri Dh. ii, 25.
Fraseri Gray, vi, 150; ix, 133
Frater D. & H. iii, 258; ix, 259
Frater Fér. . ix, 228
Fratercula Pse. iii, 70; ix, 24
Fraterminor Gredl. ix, 146

- Fraternal Say, iii, 142; ix, 78
 Fratisiana L. & B. ix, 251
 Fraudulenta Pils. . ix, 76
 Frauenfeldi Zel. ii, 47.
 Frauenfeldi Zel. . . ix, 301
 Frayssina Bgt. . . ix, 257
 Frequens Mouss. iii, 193; ix, 272
 Freycineti Pfr. i, 168.
 Freytagiana Dohrn. . ix, 191
 Freytagi Malz. . . ix, 272
 Friabilis W. G. Binn. ii, 183.
 Fricata Gld. ii, 213.
 Fricki Pfr. iii, 67; . ix, 25
 FRIDOLINTA Pils. . ix, 294
 Friedeliana Mart. iv, 61; ix, 210
 Friesiana Mldff. vi, 118; ix, 214
 Frigida Jan. iv, 101; . ix, 302
 Frigidescens Del Prete, iv,
 [105; ix, 303
 Frigidissima Adami, . ix, 303
 Frilleyi C. & D. iv, 49; ix, 204
 Fringilla Pfr. vii, 73; . ix, 143
 Fritillata Bens. iii, 33.
 Fritschi Mouss. iv, 170; ix, 327
 Fritzzei Bttg. viii, 194; . ix, 4
 Frivaldskyana Rm. iii, 21;
 [ix, 47
Frivaldskyi Calc. . . ix, 330
 Frivola Pse. ii, 116.
Frondosula Mouss. ii, 155.
 FRUTICICOLA Held. . ix, 272
 FRUTICOCAMPYLÆA Kob.
 [ix, 303
Fruticola Auct. . ix, 273
Fruticola Bgt. iii, 204.
Fruticola Kryn. iii, 200; ix, 272
Fruticosa Parr. . . ix, 267
Fruticotrochus Kob. . ix, 168
Fruticum Müll. . . ix, 204
Frutis Parr. . . ix, 272
Fucata Pfr. vii, 14; . ix, 141
Fuchsiana Heude. ii, 35.
Fuchsi Gredl. . . ix, 204
Fueredensis Serv. iii, 204.
Fulgens Sowb. vii, 182; ix, 224
Fulgetrum Brod. viii, 12; ix, 228
Fulgetrum Cox, iii, 265.
Fulgida Parr. ii, 190.
Fulgurata Sowb. vi, 36; ix, 157
Fuliginata Mts. vii, 188; ix, 225
Fuliginea Fér. . . ix, 91
Fuliginosa Griff. ii, 185.
Fulminata Hutt. . . ix, 12
Fulminata Mart. . . ix, 112
Fultoni G.-A. viii, 296; ix, 146
Fulva Drap. ii, 173.
Fulvida Pfr. ii, 82.
Fulvizona Mouss. ii, 74.
Fulvocarnea Mart. ii, 93.
Fulvoidea Morel. ii, 175.
Fulvostraminea, v. Mart. ix, 192
Fumigata Semp. . . ix, 225
Fumosa T.-W. i, 128.
Funbris Mart. vi, 19; . ix, 156
Funbris Morel. vi, 301; ix, 156
Funerea Cox, ii, 209; . ix, 34
Funiculata Pfr. . . ix, 132
Furcillata Hupé, v, 171; ix, 95
Füredensis Serv. iv, 17; ix, 255
Furneauxensis Pett. ix, 34, 338
Furtiva Hde. iv, 60; . ix, 210
Furva Lwe. iv, 192; . ix, 293
Fusca Fér. . . ix, 307
Fusca Mont. iii, 186; . ix, 273
Fusca Q. & M. . . ix, 340
Fuscata Pse. . . ix, 6
Fuscesens D. & M. . ix, 307
Fuscocincta Ad. v, 39; . ix, 183
Fuscolabiata Poey, v, 34; ix, 184
Fuscolabiata Rm. iv, 219;
 [ix, 331
Fuscolabris C. B. Ad. v, 106;
 [ix, 89
Fuscolutea Grat. ii, 35.
Fuscoradiata Cox, iii, 265;
 [ix, 35
Fuscosa Sut. . . ix, 339
Fuscosa Ziegl. ii, 189.
Fuscosuccinea Beck, ii, 107.
Fuscoviridis Grat. . ix, 91
Fuscozonata Bedd. viii, 83;
 [ix, 26
Fuscula C. B. Ad. iii, 98; ix, 58
Futunaensis Mouss. ii, 125.

- Gabata* Gld. iv, 57; . ix, 116
Gabbiana Hemp. viii, 119; [ix, 50
Gabbi Newc. iv, 77; . ix, 200
Gaberti Less. vii, 48; . ix, 140
Gabriellæ D. & H. vi, 205; [ix, 104
Gadensis Bedd. viii, 109; ix, 34 [338
Gaidurina Bl. & W. . ix, 324
Gaimardi Dh. vi, 255; . ix, 120
Galactina Let. & Bgt. iv, 30; [ix, 263
Galactites Lam. . ix, 224
GALACTOCHILUS Sandb. ix, 310
Galactostoma Pfr. vi, 44; ix, 157
Galactostomella Mab. vi, 53; [ix, 157
Galaxias Beck, . ix, 172
Galdarica Mab. iv, 162; ix, 327
Galea Bens. iii, 75; . ix, 170
Galeata Paiva, iv, 41; . ix, 240
Galeomma Bgt. . ix, 257
Galena Bgt. . ix, 324
Galera Hde. . ix, 170
Galerus Bens. iii, 75; . ix, 4
Galiffetiana, Bgt. . ix, 326
Galinieriana Bgt. iii, 190; [ix, 268
Galiziensis Jen. iii, 175.
Gallæciana Silv, . ix, 44
Gallandi Bgt. . ix, 333
GALLANDIA Bgt. viii, 135.
Gallica Bgt. . ix, 303
Gallina Hartm. . ix, 107
Gallinula Pfr. vi, 219; . ix, 108
Gallopavonis Val. v, 27; ix, 184
Galloprovincialis Dup. ix, 266
Gamelia Ang. vii, 10; . ix, 139
Gamma Pfr. . ix, 32
GANESELLA Blanf. . ix, 168
Ganoda Mab. . ix, 341
Ganoma Pfr. ii, 70.
Garachicoensis Woll. . ix, 341
Garciai Hagenm. . ix, 305
Gardeneri Pfr. ii, 82.
Gargottæ Phil. . ix, 259
Garibaldiana D. & S. vii, [159; ix, 223
Garoceliana Loc. . ix, 256
Garrettii Anc. viii, 95; . ix, 25
Gärthneriana Pfr. . ix, 141
Gascoynensis Smith, . ix, 343
Gaskoini Pfr. v, 127; . ix, 93
Gasparinæ Charp., iv, 102; [ix, 303
Gassiesi Pfr. iii, 89; . ix, 5
GASTRODONTA Alb. ii, 12, 197.
Gattoi Kob. viii, 175; . ix, 250
Gaufreyi Mab. . ix, 266
Gaudiella Mab. vi, 55; ix, 157
Gaudryi Orb. iv, 177; ix, 327
Gaudryi Rv. . ix, 327
Gaudryopsis Mab. . ix, 327
Gaussoini Tryon, v, 197; ix, 183
Gawleri Braz, ii, 210.
Gayi Hupé, . ix, 165
Gayndahensis Braz. ii, 215.
Gealei E. A. Sm. v, 149; ix, 94
Gelata Cox, vii, 65; . ix, 143
Gelida Bgt. . ix, 275
Gemellarii Ben. . ix, 335
Gemina Busch. ii, 36.
Geminata Mouss. iii, 224; ix, 337
Gemma Hazay, ii, 146.
Gemma Pfr. ii, 117.
Gemonensis Fér. ii, 137.
Genardi Braz. . ix, 120
Generalis Pfr. vii, 137; ix, 222
Genezarethana Mouss. iii, [199; ix, 268
Gennarii Paul. iv, 113; ix, 305
Gentilsiana Crosse, i, 115; [ix, 20
Genuensis Porro, . ix, 322
Genulabris Mart. . ix, 205
Geoffreyi H. Ad. ii, 106.
GEOMITRA Swainson, ix, 238, 244
Georgiana Q. & G. . ix, 14
Georgiana Quoy, ii, 168.
Geotrochus Beck, . ix, 137
Geotrochus Hasselt, . ix, 1
Geotrochus Mlldff. vii, 97; [ix, 215

- Gerfalchensis* Pecch. ii, 154.
Gergisensis L. & B. . ix, 336
Gerlachi Möll. iv, 52; . ix, 209
Germani Ph. iii, 43; . ix, 41
Germana Gld. iii, 143; . ix, 78
GERONTIA Hutton, . ix, 14
Gerrardi Sm. . ix, 120
Gerstfeldiana Cless. . ix, 274
Gertrudis Rolle, . ix, 333
Geryvillensis Bgt. iv, 6; ix, 255
Gervaisii Dubr. ii, 31.
Gesneri Hartm. iv, 237; ix, 319
Gesocribatensis Bgt. . ix, 256
Gestroi Tap.-Can. vii, 44; [ix, 142
Ghaesiana Mouss. iv, 17.
Ghazouana Deb. iv, 133; [ix, 324
Ghiesbreghti Nyst. iv, 75; [ix, 192
Ghilanica Mss. iv, 231; ix, 333
Gibboni Pfr. v, 182; . ix, 167
Gibbosa A. Ad. . ix, 169
Gibbosa Mart. ii, 74.
Gibbosobasalis Woll. iv, [131; ix, 324
Gibbosula Dh. . ix, 322
Gibbosula H. & J. . ix, 113
Gibilmanica Serv. . ix, 257
Gibsi Leach, . ix, 266
Gigas Bens. i, 179.
Gigas Pfr. ii, 17.
Gigas Smith, i, 61.
Gigas Swains. . ix, 155
Gigantea Scop. v, 73; . ix, 100
Gigaxii Charp. iv, 16; . ix, 255
Gilberti Pfr. vi, 142; . ix, 131
Gilliesi Sm. i, 127.
Gilva Brod. vii, 205; . ix, 227
Gilva Fér. v, 31; . ix, 184
Giramica Lwe. iv, 188; ix, 240
Giraudeliana Hde. viii, 210; [ix, 206
Girva Friv., Rm. iii, 118; [ix, 288
Giuliæ Bgt. . ix, 320
Giurica Bttg. viii, 192; . ix, 277
Glabella Drap. iii, 186; ix, 266
Glabella Puton, iii, 175.
Glaberrima Ben. ii, 151.
Glaberrima Mlldff. ii, 121.
Glaberrima Pfr. ii, 212.
Glaberrima Semp. ii, 112.
Glabra Stud. ii, 146.
Glabriuscula Pfr. iii, 37; ix, 9
Glacialis Sut. . ix, 18
Glacialis Thom. iv, 109; ix, 302
Glandula Beck, ii, 113.
Glanvilliana Anc. viii, 147; [ix, 38
Glaphyra Alb. . ix, 282
Glaphyra Say, ii, 155.
Glasiana Sh. iv, 169; . ix, 327
Glauc Aust. ii, 92.
Glauc Bens. ii, 88.
Glaucophthalma Pfr. viii, 7; [ix, 228
Glischra L. & Bgt. iii, 185.
Glissoni Anc. viii, 82; . ix, 35
Globata v. Mts. . ix, 150
Globosa Aust. ii, 103.
Globosa Brod. . ix, 94
Globosa Friedl. . ix, 47
Globosa Mlldff. . ix, 222
Globosa Paul. . ix, 301
Globosa Semp. ii, 35.
Globosa Sut. viii, 96; . ix, 33
Globosula Mlldff. ix, 220
Globosus G.-A. i, 182.
Globula Kryn. iii, 197; ix, 266
Globula Lea. . ix, 205
Globularis Jeffr. . ix, 273
Globularis Schum. . ix, 88
Globularis Ziegl. iv, 206; ix, 330
Globuloidea Terv. iii, 243; [ix, 250
Globulosa Bgt. . ix, 333
Globulosa Ckll. viii, 118; ix, 50
Globulosa Fér. . ix, 189
Globulosa Kucik, . ix, 300
Globulosa Mlldff. error for globosula, Mlldff.
Globulus Chemn. ii, 81.
Globulus Müll. iii, 213; ix, 173
Globus Less. iii, 174.
Glomerosa Aust. ii, 177.

- Glomus Alb. i, 251; ii, 128.
 Gloriosa Pfr. vi, 68; . ix, 153
 Gloynei Sowb. vii, 165; ix, 224
 Glutinosa Metc. ii, 72.
 Glyceia Mab. iv, 170; ix, 327
 GLYPTORHAGADA Pilsbry,
 [ix, 129
 GLYPTOSTOMA Bl. & Binn.
 [ix, 192
 Gmeliniana Pfr. vii, 100; ix, 215
 Gobanzi Ffd. iv, 107; ix, 302
 Godeffroyana Garr. ii, 77.
 Godetiana Kob. iv, 253; ix, 320
 Godeti Sowb. viii, 129; ix, 5
 Godeti Sut. viii, 68; . ix, 15
 Godwini Try. ii, 101.
 Goldiei Braz. vi, 217; . ix, 141
 Gomeræ Woll. iii, 123; . ix, 289
 Gomerensis Morel. iv, 185;
 [ix, 328
 Gomesiana Pva. iv, 45; ix, 243
 Goniasmos A. D. Br. v, 102;
Goniochila Pfr. iv, 58; ix, 171
Goniodiscus Auct. . ix, 45
Goniognatha Mörch. ix, xxiii.
 Goniogyra Bgt. . ix, 257
 Goniomphala Pfr. iii, 78; ix, 6
 Goniostoma Mlldff. viii, 221;
 [ix, 122
Gonostoma Binney, . ix, 80
Gonostoma Held. . ix, 284
 GONOSTOMOPSIS Pilsbry, ix, 91
 Gonostyla Anc. vi, 45; . ix, 158
 GONYODISCUS Fitzinger, ix, 45
 Goodwini Sm. iii, 219; ix, 169
 Goossensi Mab. iii, 184; ix, 275
 Gordoniana Bens. ii, 45.
 Gorenduensis Braz. vii, 63;
 [ix, 142
 Gorgonarum Dohrn, iii, 46.
 Gorontalensis Mts. iii, 83; .
 [ix, 5
 Gortschana Mouss. iii, 20; .
 [ix, 47
Gossei Pfr. . ix, 183
Gossei Rv. . ix, 183
Gosseni error for goossensi
 [Mab; ix, 275
Gothica L. iv, 117.
 Gotlandica West. . ix, 307
 Gottschei Möll. iv, 62; . ix, 210
 Goudotiana Fér. vi, 70; ix, 153
 Gougeti Serv. iii, 121; . ix, 288
 Gouini Deb. viii, 170; . ix, 250
 Goulardiana Cr. i, 122; . ix, 54
Gouldi Cox, . ix, 35
Gouldi Hemph. viii, 116; ix, 50
 Gouldi Pfr. iii, 77; . ix, 4
 Grabhami Woll. . ix, 245
 Gracilicosta Reinh. viii, 256;
 [ix, 283
 Gracilis Lea, . ix, 228
 Gracilis Mlldff. . ix, 337
 Gracilis Poey, . ix, 58
 Gradata Mlldff. . ix, 169
 Gradata (Rhytida) Gld. iii, 38.
 Gradilis Mts. viii, 179; . ix, 259
 Gradiscanensis Fag. iv, 18.
 Græca Kob. ii, 134.
 Græca Mart. . ix, 252
 Graellsiana Pfr. iv, 150; ix, 291
 Graellsii Hid. viii, 14; . ix, 228
 Græseri Mouss. viii, 205; ix, 206
 Graffi Mouss. iii, 65; . ix, 27
Graftonensis Cox, ii, 169.
 Graja West. . ix, 259
 Graminicola C. B. Ad. v, 36;
 [ix, 185
 Graminum Hde. iii, 207; ix, 204
 Granaria Bock. ii, 18.
Granatelli Biv. . ix, 281
 Grandidieri C. & F. vi, 72;
 [ix, 153
 Grandiscanensis Fag. . ix, 256
 Grandis Mlldff. . ix, 342
 Grandis Pfr. vii, 195; . ix, 227
Granifera Bens. . ix, 116
Granifera Gray, . ix, 91
Grannonensis Bgt. . ix, 249
 Granomalleata Woll. iv, 178.
 [ix, 328
Granosa Wood. . ix, 97
 Granostriata Mouss. iv, 43;
 [ix, 259
 Granti Pfr. . ix, 209
 Granulata Alder, iii, 178;
 [ix, 273
 Granulata Q. & G. vii, 90;
 [ix, 125
Granulata Roth. . ix, 266

- Granulatissima* Mill. v, 148 ;
 [ix, 94
Granulifera Mlldff. vi, 306 ;
 [ix, 214
Granulosa Mlldff. viii, 125 ;
 [ix, 4
Granulosa Fér. vi, 43 ; . ix, 157
Granulosostriata Mts. . ix, 209
Granum Pfr. ii, 212 ; . ix, 16
Granum Streb. iii, 55 ; . ix, 57
Graphica Hartm. . . ix, 254
Graphica Morel. . . ix, 336
Graphicotera Bgt. . ix, 277
Grasseti Tarn. iii, 225 ; . ix, 337
Grata Mich. vii, 35 ; . ix, 141
Grateloupi Graells, . ix, 291
Grateloupi Gray, ii, 77.
Gratianopolitana Ramb. iii,
 [175 ; ix, 273
Gratioleti Hupé, iii, 48 ; ix, 41
Gratiosa Cox, vi, 155 ; . ix, 133
Gratiosa G.-Aust. ii, 64.
Gratiosa Gredl. . . ix, 319
Gratiosa Zgl. iv, 10 ; . ix, 254
Gratulator Blf. ii, 57.
Gravida Mouss. iv, 156 ; ix, 327
Gravosaensis Muhl. . ix, 300
Grayana Pfr. . . ix, 109
Grayi Hombr. & Jacq. ix, 109
Grayi Pfr. vi, 130 ; . ix, 131
Gredleriana Hde. ii, 68.
Gredleri Hilb. viii, 209 ; ix, 206
Greenhilli Cox, vi, 138 ; ix, 131
Greenvillei Braz. ii, 181.
Greenwoodii, Gray, i, 126.
Gregaria Garr. iii, 72 ; . ix, 24
Gregaria Zgl. iii, 196 ; . ix, 266
Grelloisi Bgt. iv, 114 ; . ix, 272
 [303
Grevillei Pfr. vi, 82 ; . ix, 154
Griffithi Pfr. ii, 185.
Grimaldiensis Nev. . ix, 324
Grisea Gmel. . . ix, 318
Griseola Mlldff. vi, 228 ; ix, 109
Griseola Pfr. iv, 76 ; . ix, 68
Groboni Bgt. . . ix, 256
Grohmanni Phil. iv, 205 ; ix, 330
Gromatica G.-Aust. ii, 53.
- Groulti* Jouss. . . ix, 228
Grovesiana Paul., iii, 254 ;
 [ix, 259
Groviana Fér. . . ix, 293
Groyana Fér. . . ix, 259
Grumus G.-A. viii, 195 ;
 [ix, 209
Gruneri Pfr. vi, 250 ; . ix, 119
Guadalcánarensis Cox, vii,
 [9 ; ix, 140
Guadeloupensis Pils. v, 87 ;
 [ix, 91
Guadryi=*gaudryi*.
Gualtierana L. iv, 202 ; . ix, 330
Guamartemes Grass. iv, 174 ;
 [ix, 327
Guanensis Poey, v, 61 ; . ix, 97
Guantanamensis Poey. v, 65 ;
 [ix, 97
Guartemes Mart. . . ix, 327
Guatemalensis C. & F. ii,
 [174 ; ix, 57
Guayaquilensis Pfr. ii, 166.
Gueinzii Pfr. . . ix, 198
Gueretini Serv. iii, 204.
Gueriniana Lwe. . . ix, 51
Guerini Ant. . . ix, 288
Guerini Pfr. iii, 93 ; . ix, 208
GUESTIERIA Crosse, i, 113.
Guestieriana Cr. vi, 62 ; ix, 152
Guevarriana Bgt. . . ix, 276
Guildingi Ang. ii, 182.
Guildingii Bld. ii, 182.
Guildingi Pfr. . . ix, 91
GUILLAINIA Bgt. ii, 9, 133.
Guillaini Pet. vi, 30 ; . ix, 157
Guillarmodi Shutt. v, 133 ;
 [ix, 191
Guilloui Pfr. iii, 93.
Guilloui Pfr. . . ix, 6
Guimarasensis Pfr. i, 173.
Guimarasensis Pils. . ix, 215
Guimarasensis Rve. . ix, 228
Guimeti Bgt. . . ix, 255
Guinaria Pfr. . . ix, 124
Guiraoana Rossm. iv, 147 ;
 [ix, 325

- Gularis* Say, ii, 199.*
Gulosa Gould, vi, 131; . ix, 131
Gummata Sowb. ii, 85.
Gundlachi Pfr. ii, 174.
Gunni Brazier, . ix, 34
Gunnii Gray, i, 126.
Guppya Morch. ii, 11.
Guppyi Smith, vii, 19; . ix, 140
Gurgustii Cox, vii, 61; . ix, 142
Gussoneana Sh. iv, 243; ix, 319
Gutierrezii Poey, v, 125; ix, 93
Gutta Pfr. i, 174.
Guttata LeGuill. . ix, 111
Guttata Oliv. iv, 228; . ix, 333
Gypsacea Pfr. ii, 70.
Gypsina Melv. & Pons. viii, [262; ix, 173
Gyrata West. iii, 173; . ix, 274
Gyrata West. . ix, 302
Gyrella Morel. iii, 126; . ix, 83
Gyria Roth. iii, 117; . ix, 288
Gyrina Val. v, 131; . ix, 190
Gyroides Parr. iii, 246; ix, 252
Gyroplatys Dohrn, iii, 101.
Gyrostoma Fér. iv, 212; ix, 330
Gysseriana Pfr. iii, 75; . ix, 170

Haasti Hutt. viii, 62; . ix, 9
Habroconus C. & F. ii, 11.
HADRA Albers, . ix, 131
Hadrumetorum Let. & Bgt. [ix, 251
Hæmastomus L. vi, 78; ix, 154
Hæmastomus Swains, . ix, 184
Hæmatozona Hde. vi, 119; [ix, 214
Haenseli Sch. & Bttg. viii, [119; ix, 4
Hæsitans Hde. . ix, 204
Hætereia West., . ix, 301
Hahni Mab. vi, 200; . ix, 104
Haidrana L. & B. . ix, 251
Hainanensis H. Ad. vi, 204; [ix, 104
Hainesi Mart. ii, 86.
Hainesi Pfr. ii, 96.
Hainesi Pfr. viii, 26; . ix, 229
Haitensis W. & M. v, 21; ix, 186

Hajnalldiana Haz. iv, 237; [ix, 319
Halata Mouss. ii, 71.
Haldemaniana Ad. iii, 8; [ix, 64
Halia (Berth.) Bgt. . ix, 256
Halichlora Semp. viii, 32; [ix, 229
Halli Cox, iii, 264; ix, 34, 338
Halmaherica Strub. viii, 284; [ix, 111
Halmyris Mab. . ix, 331
Halophila Deb. . ix, 251
Hamacenica Raff. iii, 250; [ix, 268
Hamadanica L. & B. . ix, 336
Hameliana Crosse, ii, 167.
Hamilcaris Kob. iii, 233; ix, 250
Hamiltoni Cox, iii, 87; ix, 13, 338
Hammonis Strom. ii, 153.
Hamudæ Kob. viii, 182; ix, 259
HAMYA Bgt. ii, 7.
Hamyana Anc. viii, 95; ix, 27
Hanleyi Pfr. vii, 95; . ix, 215
Hanni Braz. vi, 166; . ix, 134
Hapa H. & J. . ix, 6
Haploa West. . ix, 335
HAPLOGONA, . ix, xxix
HAPLOTREMA Anc. ii, 13, 208.
Hardouini Morg. vii, 86; ix, 116
Hardwickei Aust. ii, 100.
Harfordiana Coop. iii, 130; [ix, 80
Harfordiana W. G. B. iii, [146; ix, 76
Harfordii Sby. vii, 148; ix, 223
Hargravesi Auct. . ix, 139
Hargreavesi Ang. vii, 9; ix, 139
Hariola Bens. iii, 74; . ix, 170
Hariotiana Bgt. . ix, 259
Harlei Fag. ii, 159.
Harmonica Mouss. iv, 185; [ix, 328
Haroldi Godw.-Aust. ii, 53.
Harpa Say, iii, 54; . ix, 281
Harpula Reinh. iii, 55; ix, 281
Harrietensis Nev. ii, 126.
Harriettæ Cox, iii, 109; viii, 147.

- Hartmanni Pfr. iii, 83; . ix, 5
 Hartungi Alb. iv, 189; . ix, 240
 Hartvigiana Pfr. iii, 107.
 Hartwegi Pfr. v, 153; . ix, 94
 Harveyensis Grt. iii, 40; ix, 35
 Hasselquisti Ehr. . . ix, 335
 Hauffeni Schm. iii, 30; . ix, 47
 Haughtoni Bens. ii, 39.
 Hausknechti Bttg. iii, 193;
 [ix, 272
 Havanensis Pils. . . ix, 97
 Haydeni Gabb. iii, 57; . ix, 50
 Hazienda Bld. iii, 131; . ix, 73
 Hazayana Cless. iv, 89; ix, 302
 Hebe Dh. . . ix, 182
 Hebesceus Blanf. ii, 102.
 Heckeliana Crosse, . ix, 20
 Hectori Sut. viii, 89; . ix, 28
 Hector Pfr. . . ix, 222
 Hedeia Mab. iv, 186; . ix, 328
 Hedenborgi Pfr. . ix, 268
 Hedleyi Smith, viii, 290; ix, 141
 HEDLEYOCONCHA Pilsbry,
 [ix, 18
 Hedonica Mab. iv, 161; ix, 327
 Hedybia Mab. iv, 176; ix, 327
 Hegewischi Mart. . ix, 192
 Heimbürgi Branc. viii, 30;
 [ix, 229
 Heldiana Pfr. . . ix, 9
 Heldreichi Shutt. . . ix, 303
 Helenæ G.-A. i, 170.
 Helenensis Pfr. . . ix, 28
 HELENOCONCHA Pilsbry, ix, 28
 Helferi Bens. iv, 63; . ix, 116
 Heliaca Orb. v, 185; . ix, 167
 HELICARION Fér. i, 168.
 Helice Cox, iii, 261; . ix, 13
 HELICELLA Fér. . . ix, 245
 Helicella Swains, . . ix, 166
 Helicella Wood, . . ix, 337
 HELICINÆ, . . ix, xxviii
 Helicifera Blanf. ii, 132.
 HELICIGONA Fér. . ix, 296
 Helicinoides H. & J. vii, 76;
 [ix, 143
 Helicinoides Mouss. iii, 211;
 [ix, 124
 Helicinus Lightf. . . ix, 283
 HELICINÆ, ix, xxxii.
 Helicobulimus, . . ix, 226
 HELICOBULINUS Broderip,
 [ix, 226
 Helicodes Dum. ii, 10.
 HELICODISCUS Morse, . ix, 51
 Helicodon Ehrenb. . ix, 284
 HELICODONTA Fér. . ix, 284
 HELICOGENA Fér. . ix, 316
 Helicoides Fér. ix, xviii.
 Helicoides Lea, . . ix, 77
 Helicoides Pfr. . . ix, 225
 Helicoides Semp. i, 174.
 Helicomela Lowe, . ix, 239
 HELICOPHANTA Ferussac,
 [ix, 151
 Helicophantoides Pfr. iii, 46;
 [ix, 40
 Helicopsis Anc. . . ix, 171
 Helicopsis Beck, ii, 8.
 Helicopsis Fitz. . . ix, 253
 HELICOSTYLA Fér. ix, 216, 224
 Helictomphala Pfr. iii, 130;
 [ix, 74
 Helicycloides d'Orb. viii,
 [150; ix, 83
 Heligmoidea d'Orb. iii, 125;
 [ix, 83
 HELIOMANES Moq.-Tand.
 [ix, 248
 Heliophila (B.) Pch. . ix, 324
 HELIX Linne, . . ix, 311
 Hellenica Bl. & W. viii,
 [163; ix, 255
 Helmii Gilb. ii, 152.
 HELMINTHOGLYPTA Anc.
 [ix, 197
 Helmsi Hutt. . . ix, 12
 Helvacea Phil. . . ix, 205
 Helva Cox, iii, 262; . ix, 35
 Helvetica Blum. ii, 159.
 Helvetica Sterki, . . ix, 283
 Helvola Friv. iii, 202; ix, 266
 Helygaia Mab. iv, 159; ix, 327
 Hemiclista Schm. & Bttg. ix, 214
 HEMICYCLA Swains, . ix, 326
 Hemiopta Bens. vi, 238; ix, 124

- Hemioxia* Pils. . . ix, 157
HEMIPLECTA Alb. ii, 6, 35.
Hemipleuris Möll. iii, 149; [ix, 279]
Hemipsorica Morel. ii, 155.
Hemisphærica Less. . ix, 274
Hemisphærica Mlldff. viii, [223; ix, 204]
Hemisphærica West. ii, 196.
Hemisphæriion Pfr. vii, 145; [ix, 222]
HEMITROCHUS Swains, ix, 183
Hemonica Thiesse, . ix, 303
Hemphilli Newc. viii, 119; [ix, 50]
Hemphilli W. G. B. ii, 207.
Hemphilli W. G. B. iii, 146; [ix, 76]
Hemprichi Ehr. . . ix, 335
Hennigiana Mlldff. . ix, 215
Henoniana Bgt. iii, 254; ix, 259
Henrici Semp. ii, 104.
Henriettæ Maz. iii, 144; ix, 76
Henriquesi Silv. . . ix, 44
Henryana Pett. . . ix, 10
Hensaniensis Gredl. vi, 299; [ix, 290]
Henschei Pfr. viii, 130; ix, 5
Hepatica Rv. ii, 29.
Hepätizon Gld. ii, 34.
Heptagyra Mlldff. . ix, 337
Heptaptycha Q. & M. . ix, 339
Heracleana Bgt. iii, 239.
Herbarum Serv. . . ix, 256
Herbatica Fag. . . ix, 256
Herbicola Shutt. . . ix, 250
Herbini Bgt. iii, 190; . ix, 268
Herculea Ramb. ii, 221.
Heripensis Mab. viii, 158; [ix, 255]
Herklotsiana Dohrn. ii, 37, 43.
Herklotsi Mts. vi, 101; ix, 214
Hermann Pfr. iii, 22; . ix, 341
Hermesiana Pini, iv, 100; ix, 303
Hermia Hutt. viii, 133.
Hermieri (B.) Péch. . ix, 326
Hermione Ang. vii, 21; ix, 140
Heroica Pfr. vi, 217; . ix, 108
Hero Smith, vii, 57; . ix, 141
Herpestes Hde. iv, 60; ix, 210
Herrmannseni Pfr. vi, 98; ix, 213
Herziana Mlldff. vi, 271; ix, 124
Hesperidum Mor. iv, 26; ix, 261
Hessei Kim. iv, 103; . ix, 303
Hestia Dohrn, ii, 35.
Hetæra Pfr. . . ix, 132
Heteroclites Lam. . . ix, 89
Heteroconcha Blanf. i, 176.
Heteromorpha West. iii, 172; [ix, 278]
HETEROSTOMA Hartm. ix, 244
Heterotæniata Pils. . ix, 226
Heudei Hilb. viii, 210; ix, 206
Heuglini Mts. iii, 104; ix, 268
Hexagyra Muhl. . . ix, 267
Heynemanni Kob. viii, 169; [ix, 255]
Heynemanni Pfr. iii, 72; ix, 24
Hians Pfr. v, 194; . ix, 167
Hiaticula West. . . ix, 275
Hiberna Ben. iii, 188; . ix, 272
Hicetorum Loc. iv, 17.
Hickonis Kob. . . ix, 214
Hidalgoana Crse. iii, 93; ix, 6
Hidalgoi Mlldff. viii, 246; ix, 223
Hidalgonis Dör. . . ix, 198
Hierapetrana Malz. . ix, 257
Hierica Bgt. . . ix, 260
Hierochuntina Boiss. . ix, 234
Hierocontina West. ix, 257, 275
Hieroglyphicula Mich. iv, [133; ix, 324]
Hieronymi Dör. iv, 78; ix, 198
Hierophanta Mab. iii, 225; [ix, 337]
Hierosolyma Boiss. . ix, 333
Hierosolymitana Bgt. iii, 52; [ix, 44]
Hierroensis Grass. iv, 176; [ix, 327]
Higgins Pfr. iv, 79; . ix, 198
Hildebrandti Dohrn, ii, 35.
Hilgendorffi Kob. iii, 219; [ix, 169]

- Hilgendorfi Reinh. ii, 142.
 Hillebrandi Newc. iv, 70; [ix, 199
 Hillei Gundl. ii, 199; . ix, 65
 Hilli Brazier, vi, 164; . ix, 134
 Hilli Cox, i, 170.
 Hilum Weinl. & Mts. . ix, 58
 Himalayana Lea, ii, 17.
 Hindei Cox, viii, 30; . ix, 229
 Hindsii Pfr. iii, 136; . ix, 74
Hindsi Pfr. . . ix, 230
Hindsi Rve. . . ix, 230
 Hinidunensis Nev. . ix, 148
Hippocastaneum Lam. . ix, 91
 Hippocrepis Pfr. iii, 134; ix 74
 Hipponensis Mor. . ix, 257
 Hirci Cless. . . ix, 266
Hirsuta Brumati. . ix, 302
Hirsuta Jan. . . ix, 276
Hirsuta Say, iii, 140; . ix, 78
 Hirta Mke. iv, 89; . ix, 302
 Hispalina Serv. . . ix, 257
Hispanica Partsch. . ix, 325
Hispanica Sterki, . ix, 283
Hispanica West. viii, 56; [ix, 234
 Hispida L. iii, 172; . ix, 274
 Hispidella Bgt. . . ix, 275
 HISPIDELLA Lowe, . ix, 240
 Hispidosa Mouss. iii, 172; ix, 274
Hispidula Jan. . . ix, 275
Hispidula Lam. iii, 122; ix, 288
Hispidula Risso, . ix, 254
Histrion Mühlf. . . ix, 41
Histrion Pfr. . . ix, 181
 Hiulca Jan. ii, 150.
 Hixoni Braz. vi, 177; . ix, 134
 Hjalmarsoni Pfr. v, 12; ix, 187
 Hobsoni Braz. i, 126.
Hobarti Cox, iii, 34; ix, 34, 338
 Hochstetteri Pfr. i, 127.
 Hodgsoni Blanf. ii, 119.
 Hodnæ Anc. . . ix, 260
 Hoffmanni Partsch, iv, 99; ix, 300
 Högeana Mart. . . ix, 192
Hogoleuensis Le Guill, ii, 30.
 Hola Bgt. . . ix, 257
 Holderiana Coop. . ix, 199
 Hollandi C. B. Ad. iii, 9; [ix, 64
 Holmbergi Dör. iii, 43; ix, 41
 Hololeuca Pfr. viii, 37; ix, 229
 Hololoma Mlldff. viii, 198; [ix, 280
 Holoserica Stud. iii, 116; ix, 287
Holosericea Gmel. . ix, 287
 Holostoma Pils. v, 18; ix, 186
 Holotricha Bttg. . . ix, 266
 Hombroni Pfr. vi, 258; ix, 121
 Homerica Mart. viii, 239; [ix, 320
 Homeyeri D. & H. iii, 258; [ix, 259
 Homoleuca Parr. . . ix, 253
 Hondana Pfr. ii, 165.
 Honesta Gld. ii, 111.
 Hongkongensis Dh. iii, 206; [ix, 205
 Hongkongensis Mlldff. ii, 68.
 Honorati Bgt. . . ix, 257
 Hookeriana Johnst. iii, 87; [ix, 34
 Hookeri Rve. iii, 48; . ix, 41
 Hopetonensis Shutt. iii, 144; [ix, 76
Horderi Sowb. vii, 29; ix, 141
 Horiomphala Pfr. iv, 51; ix, 337
 Hornii Gabb. iii, 21; . ix, 57
 Horrida Pfr. vi, 9; . ix, 290
 Horripila M. & D. iii, 222; [ix, 240
 Horripilosella Hde. iii, 183; [ix, 275
 Horizontalis Pfr. vi, 232; [ix, 109
Hortensis Ménétr. . ix, 304
 Hortensis Müll. iv, 123; ix, 322
Hospitans Bon. iv, 215; ix, 331
 Hottentota M. & P. viii, 141; [ix, 39
 Houaiensis Cr. iii, 149; ix, 279
 Hova Angas, vi, 24; . ix, 156
 Howardi Ang. iv, 52; . ix, 129
 Howinsulæ Cox, viii, 133.
 Hoyti Garr. ii, 77.
 Huaheinensis Pfr. iii, 61; ix, 26

- Huancensis Ph. iv, 79 ; ix, 198
 Hubbaridi A. D. Brown, iii, 139.
 Huberiana Hde. iv, 49 ; ix, 204
 Hudsoniæ Bens. iii, 108 ; viii, 135
 Hueensis Wattebl. ii, 220.
 Huetiana Ben. iv, 221 ; ix, 331
Hueti Pfr. . . ix, 331
 Hugeli Pfr. . . ix, 215
 Hugonis Pfr. ii, 18.
 Humberti Brot. iii, 156 ; ix, 148
 Humboldtiana Fér. iv, 260 ;
 [ix, 192
Humboldtiana Iher. . ix, 191
 Humilis Hutt. iii, 22 ; ix, 44
 Humphreysiana Lea, ii, 36.
 Humulicola Mab. ii, 141.
 Hunancola Gredl. . ix, 209
 Hungarica West. ii, 146.
 Hungerfordiana Nev. iii,
 [182 ; ix, 124
 Hungerfordiana Theob. ii, 133.
Hunnaensis Sut. . . ix, 339
 Hunteri Cox, vii, 105 ; ix, 220
 Hunuaensis Sut. . ix, 28
 Hupeana Gredl. iv, 259 ; ix, 210
 Hupensis Gredl. iv, 54 ; ix, 209
Huttonella Suter, . . ix, 27
 Huttoni Pfr. iv, 54 ; . ix, 209
 Huttoni Sut. viii, 104 ; ix, 32
 Hyæna Lwe. iv, 192 ; . ix, 293
 Hyalea Beck, i, 180.
Hyalina Ad. ii, 201.
Hyalina Fér. ii, 142.
 Hyalina Le Guill, vii, 88.
 Hyalina Mart. ii, 90.
 HYALINIA Fér. ii, 10, 137.
 Hyalinus Pfr. i, 172.
 HYALOSAGDA Mart. . ix, 64
 Hyba Bens. iii, 93.
 Hyblensis Parr. ii, 143.
Hybrida Hemp. . . ix, 50
 Hydatina Rossm. ii, 144.
Hydeanus Mart. . . ix, 95
Hydiana Lea, . . ix, 95
 Hydrophana Sowb. vii, 187 ;
 [ix, 225
Hydrophila Ingalls, ii, 171.
 Hydruntina Bl. iii, 230 ; ix, 250
 HYGROMIA Risso, . ix, 269
 Hylephila Orb. i, 64.
 Hyllica Brus. . . ix, 301
 Hylonomia Bgt. . . ix, 271
 Hymetti Mouss. . . ix, 303
 Hypæana Bgt. . . ix, 256
 Hyperbolica Sdb. . . ix, 295
 Hyperconica Bgt. . ix, 260
Hyperplatea Serv. . ix, 336
 Hyperteleia Morl. viii, 203 ;
 [ix, 170
 Hyphasma Pfr. ii, 58.
 Hypnicola Mab. . . ix, 307
Hypocrita Dohrn, . ix, 45
Hypogæa Bgt. ii, 145.
 Hypolepta Shutt. viii, 111 ;
 [ix, 58
 Hypoleuca Blanf. ii, 94.
 Hypophlœa Ph. iii, 43 ; ix, 41
 Hypophysa West. . ix, 344
 Hypopolia Pfr. ii, 181 ; ix, 12
Hypoptychus Pils. . . ix, 226
 Hypsellina Loc. . . ix, 275
 HYPSELOSTYLA Martens, ix, 228
 Hyptiocyclos Bens. iii, 46.
 HYSTRICELLA Lowe, . ix, 242
 Hystricelloides Mouss. iii,
 [65 ; ix, 27
Hystrix Cox, . . ix, 122
 Hystrix Migh. iii, 59 ; . ix, 27
 Iaddæ Pils. vi, 276 ; . ix, 111
 Iadola Bgt. . . ix, 266
 Ianthe Smith, vii, 58 ; . ix, 141
 Ianthinostoma L. & B. ix, 250
 Ibaroensis Ang. vi. 61 ; ix, 152
Iberica Ramb. . . ix, 254
 IBERUS Montf. . . ix, 328
 Ibrahimi Bgt. . . ix, 324
 Ibuensis Marts. ii, 51.
 Ichthyomma Held. iv, 93 ;
 [ix, 303
 Icterica Tib. ii, 189.
 Ida Auct. . . ix, 17
 Idæ Pfr. i, 178.
 Idahoensis Newe. iii, 55 ; ix, 50
 Idaliæ Bgt. iv, 28 ; . ix, 263
 Idanica Loc. . . ix, 256

- Ide Gray, ii, 210; . ix, 17
 Idia L. & B. iii, 256; . ix, 260
 Idiophya Flor. . ix, 256
 Idiotrypa Mab. iv, 168; [ix, 327
 Idryta Mab. iv, 161; . ix, 327
 Ierensis Gupp. iii, 55; . ix, 57
 Ignava Pfr. iii, 36; . ix, 35
 Ignescens Pfr. ii, 76.
 Igniflua Rve. i, 129; . ix, 13
 Ignobilis Sowb. vii, 180; ix, 225
 Ignota Mab. . ix, 255
 Illasyaca Adami, . ix, 301
 Illauta Bgt. ii, 145.
 Illibata Parr. iii, 249; . ix, 255
 Illicetorum Mab. . ix, 256
 Illicis Florence, . ix, 251
 Illicita Mouss. . ix, 234
 Illusana Serv. . ix, 307
 Illustris Pfr. vi, 201; . ix, 104
 Illuviosa Nev. . ix, 254
 Illyrica Stab. iv, 90; . ix, 301
 Iloconensis Sowb. vii, 175; [ix, 226
 Imbellis Hde. ii, 68.
 Imberbis Brus. iv, 97; . ix, 301
 Imitata Smith, . ix, 343
 Immaculata A. & R. . ix, 169
 Immaculata Pils. . ix, 215
 Immerita Blf. ii, 16.
 Immersa Gundl. . ix, 182
 Immodica Mouss. . ix, 261
 Immunda C. B. Ad. iii, 99; [ix, 58
 Impatiens Hde. . ix, 204
 Imperator Gld. i, 179.
 Imperator Montf. v, 79; ix, 98
 Imperator Pfr. vii, 199; ix, 227
 Imperatrix Gundl. v, 180
 Imperatrix West. i, 179.
 Imperfecta Dh. ii, 28.
 Imperforata Pse. iii, 68; ix, 27
 Imperforatum Spix, i, 64.
 Impexa Rve. ii, 212.
 Implicans Guppy, ii, 164.
 Implicata (Beck) Mart. iii, 133; ix, 74
 Implicata Nev. ii, 24.
 Impressa Blv. . ix, 180
 Improbata Mouss. iv, 12; ix, 255
 Improvisa Hde. iii, 220; ix, 204
 Impugnata Mouss. iii, 226; [ix, 337
 Impura Pfr. iii, 50; . ix, 57
 Inæqualis Pfr. i, 121.
 Inaguensis Weinl. iii, 41; ix, 58
 Incarnata Müll. iii, 187; ix, 272
 Incarum Phil. v, 192; . ix, 167
 Incei Pfr. vi, 167; . ix, 134
 Incerta A. Ad. ii, 178.
 Incerta Drap. ii, 191.
 Incerta Fér. v, 57; . ix, 97
 Incerta Mouss. Pfr. . ix, 26
 Incerta Pfr. . ix, 171
 Incertus Semp. i, 174.
 Inchoata Morel. iii, 200; ix, 272
 Incincta Mart. . ix, 204
 Incisa Pfr. ii, 163.
 Incisogranulata Woll. . ix, 328
 Inclara Morel. . ix, 340
 Inclinata Pfr. ii, 46.
 Incolumis Bgt. . ix, 256
 Incompta Sowb. viii, 28; ix, 229
 Inconspicua C. B. Ad. iii, 99; [ix, 58
 Inconspicua Forbes, ii, 212.
 Inconvicta Sm. . ix, 343
 Inerassata Rve. . ix, 58
 Incrustata Poey, ii, 204; ix, 57, 58
 Inculta Gass. iii, 26; . ix, 33
 Indecorata Gld. ii, 126.
 Indentata Say, ii, 160.
 Indica Bens. ii, 90, 91.
 Indica Pfr. ii, 42, 98.
 Indifferens Mouss. iv, 177; [ix, 327
 Indioensis Yates, . ix, 199
 Indiscereta Beck, . ix, 93
 Indistincta Fér. v, 14; . ix, 186
 Indusiata Pfr. vii, 184; ix, 224
 Induta Pfr. ii, 78.
 Induta Tate, i, 252.
 Inermis Morel. ii, 160.
 Inermis Mouss. iii, 41; ix, 35
 Inermis Theob. ii, 133.
 Infanda Semp. viii, 120; ix, 5

- Infans* Pfr. ii, 95.
Infantis Gredl. ii, 216; ix, 168
Infaustra Blanf. ii, 103.
Infecta Parr. . . ix, 50
Infecta Rv. iii, 23; . ix, 32
Inflata Blz. . . ix, 301
Inflata Dh. . . ix, 99
Inflata Mlldff. vi, 199; ix, 103
Inflatus Rve. i, 172.
Infecta Say, iii, 146; . ix, 76
Inflexa Klein, . . ix, 300
Informis Mouss. viii, 282; ix, 134
Infortunata Pfr. ii, 201.
Infracinctus Hde. ii, 216.
Infracostata Westerl. . ix, 341
Infracriata Sm. iii, 80; ix, 5
Infrendens Gld. ii, 132, 220.
Infula Bens. ii, 52.
Infulata Paul, . . ix, 263
Infumata Gld. iv, 70; . ix, 199
Infundibulum H. & J. . ix, 18
Infusata Alb. vii, 152; ix, 223
Ingallsiana Shutt. . ix, 77
Ingenua Bgt. . . ix, 251
Ingens C. B. Ad. v, 103; ix, 89
Ingersolli Bld. iii, 101; ix, 57
Ingloria Hde. . . ix, 170
Ingoi Cafic. . . ix, 256
Ingrami Blanf. iii, 69.
Inbluzana M. & P. . ix, 173
Initialis Hde. iv, 62; . ix, 210
Injussa Blf. ii, 55.
Innominata Gray, . ix, 242
Innominata Hde. viii, 197; [ix, 207
Inornata Kob. . . ix, 301
Innoxia Bgt. . . ix, 266
Inopinata Dh. viii, 207; ix, 206
Inops Morel. . . ix, 340
Inops, Mouss. iv, 26; . ix, 263
Inornata H. & J. ii, 77.
Inornata Rossm. . ix, 301
Inornata Say, ii, 184.
Inozonites Pfr. ii, 6, 46.
Inquinata Busch, ii, 82.
Inquieta Dohrn, viii, 273; [ix, 124
Insculpta Pfr. ii, 48.
Insignis Bgt. ii, 51.
Insignis Branc. . . ix, 319
Insignis d'Orb. ii, 164, i, 66.
Insititia Shutt. v, 121; . ix, 93
Insolida Auct. . . ix, 301
Insolita Zgl. iv, 98; . ix, 301
Instabilis Zieg. iii, 248; ix, 252
Instricta Mart. . . ix, 111
Instrumosa Dall, . . ix, 185
Insubrica Jan. iv, 101; ix, 302
Insularia Tap.-Can. . ix, 136
Insularis Ben. iv, 206; ix, 331
Insularis Cr. & Deb. iv, 112; [ix, 305
Insularis Iss. . . ix, 259
Insularum Beck, . . ix, 73
Insularum West. . . ix, 204
Intaminata Gld. . . ix, 219
Integrivittis Anc. . . ix, 324
Intensa Pils. v, 22; . ix, 186
Intensior Pils. vi, 28; . ix, 157
Intensior Pils. . . ix, 226
Interamnensis Bgt. . ix, 319
Intercarinata Migh. . ix, 26
Intercedens Retowski, . ix, 322
Intercisa W. G. B. iv, 74; [ix, 200
Intermedia C. & F. . ix, 190
Intermedia Fér. iv, 109; ix, 303
Intermedia Mlldff. . ix, 337
Intermedia Paul, . . ix, 302
Intermedius Alb. i, 61.
Intermissa Mouss. ii, 193.
Intermixta Mouss. . ix, 25
Interna Say, ii, 198.
Interpres West. iii, 242; ix, 252
Interrupta Bens. ii, 17.
Intersecta Mich. iv, 13; ix, 255
Intertexta Binn. ii, 196.
Intestinalis Schlüt. . . ix, 284
Intincta Shutt. vii, 154; ix, 220
Intonsa Godw.-Aust. ii, 60.
Intonsa Pils. viii, 111; . ix, 57
Intorta Sowb. vii, 125; ix, 220
Introducta Zgl. iii, 242; ix, 250
Introferens Bld. iii, 145; ix, 76
Intumescens Bens. ii, 16.
Intumescens Mts. iv, 54; ix, 209

- Intusplicata* Pfr. viii, 240; [ix, 326
Inusta Cox, ii, 209; . ix, 34
Inutilis Mouss. iv, 181; ix, 328
Invalida C. B. Ad. v, 117; [ix, 90
Invasa Pfr. iii, 101.
Invernica Mouss. iv, 174; [ix, 327
Inversa West. . . ix, 266
Inversa West. . . ix, 275
Inversicolor Fér. ii, 24.
Invia Hde. iii, 165; . ix, 146
Ionstoma L. & B. . ix, 250
Iopharynx Mörch. . ix, 4
Iota Pfr. . ix, 16
Iparia Ben. iv, 209; . ix, 330
Iphigenie Deb. . ix, 252
Irana Hagenm. . ix, 257
Iriana Poll. . ix, 254
Iris Mill. v, 195; . ix, 167
Irosinensis Hid. vii, 121; ix, 220
Irradians Pfr. i, 176.
Irradiata Gld. . ix, 339
Irregularis Fér. . ix, 335
Irregularis Mouss. . ix, 35
Irregularis Semp. iii, 67; ix, 26
Irregularis Sut. viii, 98; ix, 32
Irrita Berth. . ix, 257
Irrorata Say, . ix, 324
Irrorata Ziegl. iii, 103; . ix, 37
Irvine Cox, iii, 46; . ix, 13
Irus Lowe, . ix, 241
Isabella Fér. v, 85; . ix, 91
Isabellensis Souv. . ix, 220
Isabellina Pfr. ii, 40.
Isabellina Pils. v, 85; . ix, 91
Isæa Hagenm. . ix, 257
Isaræ Paul. viii, 236; . ix, 331
Isarica Loc. . ix, 273
Ischnia Mab. . ix, 275
Ischurostoma B. . ix, 257
Isilensis Paul. iv, 215; . ix, 331
Isis Pfr. vi, 256; . ix, 121
Isodoma Jan. ii, 137.
Isodon Pfr. v, 175; . ix, 95
ISOGNOMOSTOMA Fitzinger, [ix, 308
Isognomostomos Gm. . ix, 309
Isomera Friv. . ix, 249
ISOMERIA Albers, . ix, 93
Isseliana Paul. ii, 191.
Isseli Morel. iii, 105; . ix, 268
Isserica Kob. viii, 57; . ix, 234
Isserica Let. ii, 157.
Istera Let. & Bgt. . ix, 255
Istrian Stoss. . ix, 301
Itala Linn. . ix, 252
Iuloidea Forbes, ii, 209; ix, 34
Iulus Woll. . ix, 341
Jaccetanica Bgt. ii, 152.
Jachnoi Cless. viii, 172.
Jacksoni Bld. iii, 134; . ix, 73
Jacksoniensis Gray, ii, 113.
Jacobensis Ad. v, 41; . ix, 183
JACOSTA Gray, . ix, 258
Jacquementana Bgt. iv, 130.
Jacquemonti Mart. ii, 108.
Jacquetta Hutt. viii, 76; [ix, 18
Jacquini Pfr. iii, 71; . ix, 24
Jactata Gundl. . ix, 93
Jaculata Mab. vi, 120; . ix, 104
Jænensis Cl. iii, 51; . ix, 44
Jagoriana, ii, 20.
Jainiana God.-Aust. ii, 91.
Jaintiaca G.-Aust. ii, 63.
Jalapensis Streb. ii, 187.
Jamaicensis Gmel. v, 75; ix, 100
Jamesi Braz. i, 125.
Jamuensis Theob. ii, 109.
Janeæ S. & P. . ix, 26
Janeirensis Pfr. viii, 150; ix, 83
Jannellei LeGuill, vi, 182; [ix, 135
Janellii Hombr. & Jacq. ix, 121
Janira Alb. . ix, 109
Janthina Mab. iv, 156; ix, 327
JANULUS Lwe. ii, 13, 204.
Janulus Pfr. ii, 176.
Janus Chemn. ii, 19.
Japonica Dh. . ix, 213
Japonica Mliff. ii, 104.
Japonica Pfr. iii, 218; . ix, 169
Jasonis Dub. iii, 199; . ix, 268

- Jaspidea* Pfr. iv, 79; . ix, 198
Jaspidea Mab. iv, 215; . ix, 331
Jauberti Bgt. . ix, 320
Jaudenesi Cism. v, 14; . ix, 187
Javanica Lam. ii, 80.
Javanica Mart. iii, 82; . ix, 5
Jayana C. B. Ad. iii, 6; . ix, 64
Jaylei Pal. viii, 164; . ix, 255
Jeanbernati Bgt. . ix, 256
JEANNERETIA Pfr. . ix, 180
Jeannereti Pfr. iii, 53; . ix, 58
Jeannotiana Terv. iii, 11; . ix, 234
Jebusitica Roth. ii, 194.
Jeffreysiana Pfr. i, 129.
Jejuna Say, iii, 154; . ix, 77
Jenynsi Pfr. ii, 50.
Jervisensis Q. & G. vi, 141; .
 [viii, 281; . ix, 131
Jessica Hutt. viii, 85; . ix, 27
Jetschini Ulic. iv, 117; . ix, 306
Jickelii Cless. ii, 140.
Jickelii Nev. iii, 230; . ix, 268
Joannis Mort. iv, 86; . ix, 304
Jobaeana Cr. iv, 142; . ix, 325
Johannis Poey, iii, 130; . ix, 74
Johnstonei Braz. vi, 170; . ix, 134
Jolyi Pech. . ix, 260
Jonasi Pfr. viii, 32; . ix, 229
Joppensis Roth. iii, 244; . ix, 250
Josephinæ Fér. v, 88; . ix, 91
Jourdaniana Bgt. iv, 136; .
 [ix, 324
Jourdhénili Ray. ii, 158.
Jourdyi Morl. viii, 219; . ix, 204
Jousseamei Fag. iv, 18.
Jovia Mab. viii, 156; . ix, 146
Juanita Ang. iii, 77; . ix, 5
Jucunda Pfr. ii, 93.
Jugalis Hemph. viii, 117; .
 [ix, 50
Jugallsiana Alb. . ix, 77
Jugatoria Anc. iii, 166; . ix, 146
Juglans Pfr. vii, 209; . ix, 228
Jugosa Migh. iii, 59; . ix, 27
Juilleti Terv. iv, 134; . ix, 324
Julia Fér. v, 105; . ix, 89
Juliana Gray, ii, 70.
Juliana Poey, . ix, 182
Juliformis Cox, iii, 263; . ix, 35
Juliformis Lwe. . ix, 244
Juloidea Forbes, ii, 209. ix, 34
Jungermannia Pett. iii, 87; .
 [ix, 34, 338.
Jungermanniarum Ph. iii, .
 [43; . ix, 41
Juno Mazyck=Pœcilozonites.
Juno Pfr. v, 152; . ix, 94
Juriniana Bgt. iii, 188; . ix, 272
Jusiana Bgt. . ix, 249
Justini Mab. iv, 159; . ix, 327
Justi Pfr. . ix, 186
Juxtidens Pils. . ix, 76
Kabyliana Deb. . ix, 251
Kadapaensis Nev. ii, 15.
Kala Aust. ii, 101.
Kalaritana Pr., Villa, . ix, 318
Kalganensis Mldff. . ix, 206
KALIELLA Blan. ii, 7, 61.
Kanakina Gass. i, 122; . ix, 33
Kandiensis Nev. ii, 99.
Kantavuensis Garr. viii, 127; .
 [ix, 6
Kappa Pfr. . ix, 13
Karenorum Blanf. iii, 164; .
 [ix, 145
Kashmirensis Nev. ii, 24.
Katauensis Tap.-Can. . ix, 142
Katostoma Lowe, . ix, 291
Kawaiensis Pfr. ii, 170.
Kelibiana L. & B. . ix, 263
Kellettii Fbs. iv, 119; . ix, 200
Kempseyensis Cox, ii, 178.
Keppelli Pfr. i, 170.
Keppelli Pfr. ii, 106.
Kermandeci Pfr. ii, 123.
Kermorvani Coll. . ix, 308
Kershawi Braz. viii, 293; . ix, 164
Kershawi Pett. . ix, 34
Kezamahensis G.-Aust. ii, 65.
Khangetina L. & B. . ix, 251
Khasiaca Aust. ii, 63, 111.
Khasiensis Nev. iv, 64; . ix, 116
Kiangsinensis Mts. viii, 216; .
 [ix, 212
Kierulfi Mörch. iii, 86; . ix, 4

- Kiesneri* LeGuill. . . ix, 113
Kingi Brazier, iii, 46; . ix, 13
Kingi Pfr. . . ix, 41
Kingstonensis Cox, iii, 266; [ix, 35
Kiowaënsis Simp. viii, 155; [ix, 76
Kivaensis Grt. ii, 124.
Kivi Gray, iii, 37; . ix, 339
Kjellerupi Mörch. iii, 74; [ix, 4
Klecaki Pfr. . . ix, 301
Kleciachi Parr. iv, 99; ix, 301
KLIKIA Pils. . . ix, 289
Knitteli (B.) Serv. . ix, 307
Knozwilliana Fér. . ix, 77
Knysnaënsis Pfr. iii, 106; [viii, 135.
Kobeltiana Cless. iv, 90; ix, 301
Kobeltiana Deb. . . ix, 234
Kobeltiana Paul. iv, 107; [ix, 301
Kobeltiana Pfr. vi, 228; ix, 109
Kobeltiana West. . ix, 260
Kobelti Mlldff. vii, 160; ix, 223
Kobelti West. . . ix, 335
Kobensis Bttg. . . ix, 304
Kobensis Schm. & Bttg. viii, [196; ix, 210
Kochiana Mlldff. vi, 231; [ix, 109
Kochi Pfr. . . ix, 50
Kohlbergi Mill. v, 148; ix, 94
Koliaensis Aust. ii, 98.
Koliaensis G.-A. ii, 101.
Kollari Zel. iv, 94; . ix, 303
Komarowi Bttg. ii, 145.
Kompsa Mabilie, . . ix, 341
Koondaensis Blanf. ii, 130.
Kooringensis Angas, vi, 191; [ix, 129
Kopnodes W. G. B. ii, 183.
Korægælia B., Loc. . ix, 318
Koreana Pfr. . . ix, 213
Korekouke Beck, ii, 76.
Kororensis Bedd. viii, 84; [ix, 26
Kotschyi Pfr. . . ix, 255
Koutaisiana Mouss. ii, 158.
Koutoumensis Gass. ii, 167; [ix, 33
Kralicki Let. ii, 158.
Kraussi Pfr. iv, 50; . ix, 173
Kreffti Cox, ii, 219.
Kreglinger Zel. . . ix, 277
Kreitneri Hilb. viii, 211; ix, 206
Krizensis Bgt. iv, 19.
Krugiana Mart. . . ix, 58
Krüperi Bttg. . . ix, 303
Krynicky Cless. ii, 151.
Krynicky Andr. iii, 247; ix, 249
Kryzensis Bgt. . . ix, 256
Kuangsiensis Try. ii, 55.
Kuhni Pfr. v, 189; . ix, 166
Kumahensis Theob. & Stol. [ii, 88.
Kurdistana Parr. iv, 230; [ix, 333
Kurri Pfr. vi, 287; . ix, 112
Kusmici Cless. . . ix, 274
Küsteri Held. . . ix, 252
Küsteri Pfr. iii, 80; . ix, 6
Kutaisiana Mouss. ii, 192.
Kutschigi Parr. ii, 141.
Labiata Pfr. ii, 107.
Labilis Gld. ii, 178.
Labillardierei Smith, vii, 75; [ix, 143
Labiosa Gld. . . ix, 76
Labiozonalis Grat. . ix, 228
Labium Fér. vii, 38; . ix, 142
Labrella Grat. . . ix, 231
Labrella Lam. . . ix, 156
Labropurpureus Grat. . ix, 228
Labrosa Bld. iii, 141; . ix, 78
Labuanensis Pfr. ii, 48.
Labyrinthica Say, iii, 138.
LABYRINTHUS Beck, . ix, 94
Labyrinthus (Chem.) Dh. [v, 161; ix, 95
Lacerata Pfr. vii, 189; . ix, 225
Lacerata Semp. iii, 67; . ix, 26
Lacerata Semp. viii, 36; ix, 230
Lacertarum Bgt. . . ix, 250
Lachesis Fér. vi, 41; . ix, 157

- Laciniata* Hde. iv, 53; . ix, 209
Laciniosa Hde. . . ix, 209
Laciniosa Lwe. iv, 36; . ix, 241
Laciniosula Hde. iv, 53; . ix, 209
Lacosteana Mor. iii, 255; ix, 259
Lactea Hemph. viii, 118; ix, 50
Lactea Müll. iv. 130; . ix, 324
Lactea Semp. ii, 118.
Lacteolata=*lacteolota*.
Lacteolota Smith, vii, 25; . ix, 142
Lacticini Zgl. . . ix, 301
Lactiflua Pfr. vii, 108; . ix, 220
Ladacensis Nev. viii, 260; . ix, 284
Læta Gld. iv, 47; . ix, 204
Læta Pfr. ii, 86.
Læsa Rve. iii, 214; . ix, 130
Lævigata Moq. . . ix, 283
Lævigata Pfr. ii, 184.
Lævipex Müll. ii, 17.
Lagarinæ Adami, iv, 238; . ix, 319
Lagunæ Hid. . . ix, 104
Lahatensis Morg. iii, 267.
Laidlayana Bens. ii, 15.
Lailangkotensis G.-A. ii, 65.
Lais Pfr. vii, 121; . ix, 220
Lalannei Gass. iii, 73.
Lallemantiana Bgt. iv, 6; ix, 255
Lalliana Tristr. . . ix, 190
Lalloensis Pfr. vii, 136; ix, 222
Lamalouensis Reyn. . ix, 266
Lamarckiana Lea, ii, 32.
Lamarckii Fér. v, 102; ix, 89
Lamarei Mke. vi, 25; ix, 156
Lamarmoræ Malz. . ix, 305
Lambda Pfr. . . ix, 13
Lambe Pfr. vii, 48; . ix, 140
Lamberti Gass. i, 122.
Lamberti Cr. iii, 26; . ix, 33
Lamellata Jeffr. iii, 54; ix, 281
Lamellicosta Grt. iii, 39; ix, 27
Lamellicosta Pfr. . ix, 97
Lamellicostata Grt. iii, 39; . ix, 35
Lamellifera C. B. Ad. iii, 8; . ix, 64
Lamellina Newc. . . ix, 58
Lamellosa Fér. iii, 67; ix, 25
Laminata Pse. . . ix, 25
Laminifera Mlldff. iii, 165; . ix, 146
Laminifera W. G. B. . ix, 73
LAMPADIA Lowe, . ix, 294
Lampadion Bolt. . ix, 92
Lampas Martyn. ii, 34.
Lampas Müll. vi, 194; ix, 155
Lampedusæ Kob. viii, 175; . ix, 249
Lampra Pfr. i, 125.
Lamprimathia Bgt. . ix, 326
LAMPROCYSTIS Pfr. ii, 9.
Lamproides Cox, i, 124.
Lanceolata Pfr. vii, 34; ix, 141
Lancerottensis W. & B. iii, [237; ix, 258
Lanciformis Bttg. vi, 39; ix, 157
Lancula Fér. vi, 36; ix, 157
Langei Bgt. . . ix, 272
Langi Parr. iv, 102; . ix, 301
Langi Pfr., Bttg. . . ix, 301
Langleyana Braz. . ix, 13
Langloisiana Bgt. iv, 15; ix, 255
Langsdorffi Mill. . . ix, 274
Languescens Hde. . ix, 210
Languida Pfr. vii, 189; ix, 225
Lanieriana Orb. . ix, 187
Lanosa Mouss. iii, 223; ix, 276
Lansbergiana Dohrn, vi, [247; ix, 119
Lansingi Bld. iii, 102; viii, 111.
Lanuginosa Boiss. iii, 180; . ix, 274
Lanx Fér. vi, 38; . ix, 157
LAOMA Gray, . . ix, 8
Laomontana Pfr. iii, 160; ix, 146
Lapicida L. iv, 116; . ix, 299
Lapidicola Mühlf. ii, 134.
Lapidosæ Anc. iii, 238.
Lapithoensis Rolle, . ix, 333
Laqueata Baird, ii, 215.
Lardea Mts. iii, 83; . ix, 5
Lardyi Charp. ii, 124.
Largillierti Ph. iii, 218; ix, 169
Larryi Braz. . . ix, 164

- Larvata Brod. viii, 48; ix, 231
 Lasallii Eyd. vi, 233; . ix, 109
 Lasia Bgt. iii, 179; . ix, 274
 Lasmodon Phill. ii, 197.
 Lassevillei Gundl. v, 14; ix, 187
 Latastei Let. . . ix, 251
 Latasteopsis L. & B. . ix, 251
 Latebricola Bgt. ii, 144.
 Latebrosa Dall, . . ix, 185
 Latecava Mouss. . . ix, 320
 Latecostata Kobelt, . ix, 343
 Latens Lwe. iv, 35; . ix, 241
 Lateumbilicata Sut. viii, 64;
 [ix, 9
 Lathræa Bgt. . . ix, 256
 Latiaxis Smith, . . ix, 142
 Laticensis Loc. . . ix, 274
 Laticlavaria Mart. . . ix, 112
 Latidentata Mill. v, 156; ix, 94
 Latilabris Mldff. vi, 109; ix, 214
 Latilabris Westerl. . ix, 331
 Latimarginata Sm. iii, 92;
 [ix, 6
 Latinea Paiva, iv, 36; . ix, 241
 Latiniacensis Loc. . ix, 274
 Latis-simus Dohrn, ii, 137.
 Latitans Brod. vii, 167; ix, 224
 Latizona Pfr. vi, 285; . ix, 112
 Latomus Fitz. . . ix, 298
 Latonia West. . . ix, 271
 Latrunculorum Hde. iii,
 [221; ix, 204
 Launcestonensis Reeve, vi,
 [93; ix, 161
 Lauracina Fag. . . ix, 250
 Lauraguaisiana Loc. iv, 19.
 Laurentii Bgt. . . ix, 330
 Laurentii Gredl. iv, 259; ix, 170
 Laurinæ Iss. viii, 166; ix, 249
 Lautæ Lwe. iii, 235; . ix, 249
 Lautaretina Bgt. . . ix, 249
 Lautsi Schm. & Bttg. viii,
 [193; ix, 209
 Lavalleana d'Orb. ii, 202; ix, 342
 Lavandulæ Bgt. . . ix, 275
 Lavata Tib. . . ix, 266
 Lavinia Hutt. viii, 74; ix, 18
 Lawi Lewis, iii, 153; . ix, 77
 Lawi W. G. Binn. ii, 163.
 Lawleyana Bgt. ii, 145.
 Laxata Fér. iii, 109; . ix, 165
 Laxata Rve. . . ix, 165
 Layardi Hartm. vii, 79; ix, 143
 Layardi Pfr. ii, 59.
 Layardi Thom. ii, 179.
 Leachii Fér. iv, 203; . ix, 330
 Leacockiana Woll. iv, 34;
 [ix, 242
 Leai Pfr. viii, 32; . ix, 229
 Leai Ward, iii, 142; . ix, 78
 Lecontii Lea, . . ix, 76
 Lecouffei L. & B. . ix, 256
 Lecta Fér. viii, 191; . ix, 277
 Lecythis Bens. ii, 87.
 Ledereri Pfr. iii, 259; . ix, 260
 Lederi Bttg. ii, 150.
 Lederi Bttg. iii, 31; . ix, 44
 Ledgirdi Braz. viii, 107; ix, 33
 Lednicensis Branc. iv, 238;
 [ix, 319
 Ledoulxia Bgt. ii, 6.
 Ledrui Mab. iv, 162; . ix, 327
 Leei Cox, vi, 251; . ix, 120
 Lefeburiana Fér. iv, 89; ix, 302
 Lefeburiana Phil. . ix, 302
 Legrandi Cox, ii, 209; ix, 34, 338
 Leichardi Cox, i, 123.
 Leimonias Gray, iii, 68; ix, 9
 Leinardiana=lienardiana.
 Leiocheila Alb. . . ix, 100
 Leioda Hutt. viii, 87; . ix, 28
 Leiogramma West. . ix, 256
 Leiophis Bens. iii, 163; ix, 145
 Leiostoma Swains, . ix, 99, 151
 Leithiana G.-Aust. ii, 65.
 LEJEANIA Anc. . . ix, 267
 Lejeanian Bgt. iii, 104; ix, 268
 Lejocheila Alb. . . ix, 100
 Lemesli Mab. . . ix, 256
 Lemeslei Morl. . . ix, 124
 Lemniscata Brum. . ix, 319
 Lemniscata Less. . . ix, 125
 Lemniscata W. & B. iv, 21;
 [ix, 258
 LEMNISCIA Lowe, . ix, 240
 Lemoinei Deb. iii, 246; ix, 252

- Lemonia* Bgt. . . ix, 204
Lemyrei Morel. i, 67.
Lenabaria Let. . . ix, 272
Lenelaia Mab. . . ix, 305
Lenis Shutt. ii, 159.
Lennepiana Pfr. ii, 71.
Lenocinia Fér. . . ix, 91
Lenoleuca Bgt. iii, 229.
Lenopsilius Let. ii, 158.
Lens Fér. iii, 119; . ix, 288
Lenta Pfr. vii, 23; . ix, 141
Lenta Pse. . . ix, 6
Lentiaca Sayn. viii, 190; ix, 275
Lenticula Fér. iii, 119; ix, 288
Lenticula Hartm. ii, 152.
Lenticula Held. . . ix, 298
Lenticularis Mor. iii, 120; [ix, 288
Lentiformis Kob. ii, 221.
Lentiformis Zgl. iii, 119; ix, 288
Lentiginosa Lwe. iv, 38; ix, 241
Lentina Mart. . . ix, 288
Leonardi Tap.-Can. vii, 32; [ix, 141
Leonhardti Mildff. vi, 201; [ix, 104
Leonina Lwe. iv, 190; ix, 293
Leopardus Pfr. viii, 9; ix, 228
Leopoldiana Charp. ii, 189.
Lepida Poey, . . ix, 185
Lepida Reuss. . . ix, 282
Lepidolena Bgt. . . ix, 272
Lepidophora Bgt. . ix, 267
Lepidophora Dohrn, viii, [273; ix, 120
Lepidostola Hde. iv, 55; ix, 170
Lepidotricha Braun. . ix, 309
Lepinota West. . . ix, 275
Leporina Gld. iii, 131; ix, 73
Leprieurii Petit, v, 174; ix, 95
Leprosa Hde.=leprosula.
Leprosa Shutt. iii, 223; ix, 276
Leprosula Hde. iii, 220; ix, 204
Leptalea Sm. viii, 95; . ix, 28
Leptarionta C. & F. . ix, 189
Lepta West. viii, 81; . ix, 44
LEPTAXIS Lowe, . ix, 291
Leptocheila T.-C. vi, 296; [ix, 113
Leptogramma Pfr. vi, 186; [ix, 136
Leptoloma Alb. . . ix, 182
Leptomphala Bgt. . ix, 266
Leptosticta Lwe. iv, 37; ix, 243
Leptostyla Dohrn, iv, 195; [ix, 294
Leptotera M. & R. viii, 81; [ix, 41
Lersiana Fag. . . ix, 251
Lescaillei Gundl. v, 13; ix, 187
Lesiniaca Fag. . . ix, 256
Lessonii Marts. iii, 82; ix, 5
Lessoni Pfr. viii, 281; . ix, 131
Lessoni Pfr. . . ix, 134
Lethifera C. & F. vi, 300; [ix, 156
Letourneuxiana Bgt. iv, 12; [ix, 255
Letranensis Pfr. v, 11; ix, 187
Leucestha Bgt. . . ix, 251
Leucocheila West. . ix, 325
Leucocheilus Cox, vi, 139; [ix, 131
Leucochilops Pils. viii, 240; [ix, 325
LEUCOCHROA Beck, . ix, 232
Leucodon Pfr. v, 167; ix, 95
Leucograpta Mart. ii, 50.
Leucoloma Stab. . . ix, 266
Leucophæa Cox, . . ix, 140
Leucophæa Sowb. viii, 6; ix, 228
Leucophlœa Marts. ii, 59.
Leucophora Bgt. . . ix, 251
Leucophthalma Pfr. vii, 113; [ix, 226
Leucoranea Mousson, . ix, 322
Leucoraphe Pfr. iv, 77; ix, 58
Leucospira Pfr. i, 168.
Leucosticta Mts. viii, 190; [ix, 268
Leucostoma A. & R. . ix, 112
Leucostoma Risso, . ix, 336
Leucostyla Pfr. ii, 24.
Leucothoe Pfr. vii, 68; ix, 143

- Leucotropis* Pfr. vii, 36; ix, 141
Leucozona Zgl. iii, 171; ix, 278
 LEVANTINA Kob. . ix, 332
Levesquei Berth. . ix, 336
Levettei Bld. iii, 143; . ix, 76
Levicula Bens. ii, 111.
Levieuxi Nev. iii, 77.
Levis Pfr. iii, 228; . ix, 200
Lewisii Sm. vi, 106; . ix, 214
Leytensis Beck, i, 173.
Leytensis Mlldff. . . ix, 124
Leytensis Pfr. . . ix, 221
 LEYTIA Pilsbry, . ix, 221
Lhotaensis G.-Aust. ii, 65.
Lhotaensis Aust. ii, 101.
Liardeti Braz. ii, 181.
Libata Rve. vii, 157; . ix, 223
 LIBERA Garrett, . ix, 23
Liberiæ Brown, ii, 128.
Liberta West. iii, 174.
Libertina Let. . . ix, 250
Libertina West. . . ix, 274
Librosa Pfr. viii, 12; . ix, 228
Liburnica Stoss. . ix, 252
Libyca Pons. viii, 185; ix, 261
Libysonis Paul. ii, 148.
Lichenifer Mörch. . ix, 231
Licodiensis Cafici, . ix, 263
Liebtruti Alb. iv, 28; . ix, 263
Lienardiana Crosse, vii, 69; [ix, 143
Lieuranensis Bgt. . ix, 256
Lifouana = lifuana.
Lifuana Montr. i. 115; ix, 20
Ligata Müll. iv, 242; . ix, 319
Ligera Say, ii, 196.
Lightfooti Pfr. ii, 27.
Lignaria Pfr. . . ix, 223
Lignaria Pfr. vii, 204; ix, 227
Lignicola Stol. . . ix, 52
Lignicolor Mlldff. vii, 153; [ix, 223
Ligulata Fér. ii, 78.
Ligurica Kob. iv, 101; ix, 303
Lima Fér. v, 58; . ix, 97
Limansauensis Semp. vii, [126; ix, 220
Limara Bgt. . . ix, 251
Limata G.-Aust. ii, 54.
Limatula Ward, ii, 201.
Limbata Dr. iii, 189; . ix, 271
Limbata Kryn. . ix, 304
Limbata Phil. . . ix, 259
Limbifera Mart. ii, 28.
Limbifera Mouss. ii, 218.
Limnifera Held. . . ix, 278
Limula Cox, . . ix, 35, 338
Linara Bgt. iii, 251.
Lincolnensis Pfr. i, 123.
Lincolnensis Pfr. vi, 144; ix, 131
Lincta Lwe. iv, 45; . ix, 243
Lindeni Pfr. . . ix, 182
Lindoni Pfr. v, 45; . ix, 182
Lindstedti Pfr. ii, 21.
Lineata Oliv. . . ix, 249
Lineata Say, ii, 200; . ix, 52
Lineolata Lam. . . ix, 99
Lineolata Mart. . . ix, 111
Lineolata Mlldff. iv, 48; ix, 205
Lineolatus Mts. i, 178.
Linguifera Lam. . . ix, 77
Lingulata Fér., Dh. . ix, 73
Linnæana Pfr. vi, 214; . ix, 105
Linophora Morel. ii, 22.
Lintschuana Kobelt, . ix, 344
Linusæ Calc. . . ix, 324
Linusina Ben. . . ix, 324
Liochila Mart. . . ix, 100
LIOCYSTIS Mörch. iii, 75.
Liparoxantha M. & P. viii, 135.
Lirata Couth. iii, 42; . ix, 41
Liratula Pfr. ii, 215.
Liricincta Stol. ii, 53.
Liricostata M. & P. viii, 140; [ix, 39
Lirouxiana Bgt. iv, 18; ix, 257
Lisbonensis Pfr. . . ix, 274
Lischkeana Kob. iii, 220; ix, 169
Lismorensis Pils. vi, 140; ix, 131
Listeri Gray, vi, 218; . ix, 108
Lithida Mab. vi, 53; . ix, 158
Lithophaga Conr. iv, 228; [ix, 333
Litoralalis Brus. iv, 97; . ix, 302
Litoralalis Cless. ii, 140.
Littoralis Mouss. . . ix, 250

- Littoralis* Zgl. . . ix, 263
Littoricola Bens. . . ix, 37
Litturata Pfr. iv, 126; . ix, 322
Litturea, iv, 126; . . ix, 322
Lituus Less. vii, 37; . ix, 142
Lituus Rve. . . ix, 212
Liverpoolensis Braz. vi, 141;
[ix, 131
Livesayi Pfr. vi, 223; . ix, 108
Livida Guild. ii, 182.
Lividocincta Semp. vii, 171;
[ix, 221
Lixa Blanf. ii, 102.
Lizardensis Pfr. iii, 86; . ix, 35
Loana Gredl. ii, 172.
Lobethana Deb. iv, 137; ix, 325
Locardi West. . . ix, 251
Locheana Bgt. iv, 13; . ix, 255
Loczyi Hilb. . . ix, 206
Lofouana Mlldff. iv, 258;
[ix, 209
Loheri Mlldff. . . ix, 220
Lohrii Gabb. . . ix, 199
Loisa W. G. B., iii, 134; ix, 74
Lombeii Pfr. . . ix, 140
Lomonti Braz. iii, 82; . ix, 5
Lonchostoma Mke. v, 130;
[ix, 190
Longicauda Aust. ii, 98.
Longipila Mss. . . ix, 257
Longsonensis Morl. viii, 265;
[ix, 104
Loocensis Hid. viii, 120; ix, 5
Lorcania Rossm. . . ix, 325
Loricata Gld. iii, 145; . ix, 76
Lorioliana Crosse, vi, 145;
[ix, 131
Lorquini Pfr. vi, 286; . ix, 112
Loroglossicola Mab. viii, 159;
[ix, 255
Lotophagorum L. & B. ix, 251
Lottah Petterd. . . ix, 35
Loucoubeensis Cr. vi, 27; ix, 157
Louisiadensis Forbes, vii, 61;
[ix, 142
Loveni Kr. iii, 106; . ix, 39
Loweana Woll. . . ix, 341
Loweii Fér. iv, 200; . ix, 293
Loweii P. & M. . . ix, 254
Lowi Issel. ii, 114.
Loxana Rossm. . . ix, 325
Loxensis Mill. . . ix, 94
Loxodon Pfr. v, 17; . ix, 186
Loxotatum Mab. vi, 13; ix, 290
Loxotropis Pfr. vi, 285; ix, 112
Lubanicus Pfr. . . ix, 104
Lubomirskii Slos. iii, 185.
Lubrica Bens. ii, 92.
Lucana Blanc. . . ix, 331
Lucana Müll. iii, 213; . ix, 173
Lucana Vallot. . . ix, 204
Lucani Tourn. . . ix, 294
Lucasi Dh. iv, 132; . ix, 324
Lucena Moq. . . ix, 182
Lucensis Paul. iv, 106; ix, 301
Lucens Pult. ii, 152.
Lucentumensis Bgt. . ix, 326
Lucerna Müll. v, 105; . ix, 89
Lucerna Swains, . . ix, 88
Lucernalis Kob. . . ix, 344
Lucernella Swains. . ix, 90
Lucetta Hutt. iii, 22; . ix, 32
Luchuana Auct. . . ix, 213
Lucida Drap. ii, 149.
Lucida Pult. ii, 155.
Lucidella Pfr. ii, 119.
Lucidula Swains, . . ix, 90
Luci Flor. . . ix, 249
Lucifuga Hartm. . . ix, 322
Lucilla Lwe. ii, 10.
Lucipeta Poey, v, 32; . ix, 185
Luckmanni Braz. ix, 34, 338
Lucorum L. iv, 239; . ix, 319
Luctuosa Beck, ii, 74.
Luctuosa Caf. . . ix, 249
Lucubeensis Auct. . ix, 157
Lucubrata Say, ii, 184.
Lüdersi Pfr. iii, 92; . ix, 6
Ludovici Alb. iv, 42; . ix, 243
Luengoi Hid. viii, 245; ix, 223
Luganensis Schintz. . ix, 301
Lugduniaca Mab. . . ix, 256
Luhuana Sowb. vi, 305; ix, 213
Luquillensis Shutt. v, 74; ix, 100
LUQUILLIA Crosse, . ix, 99
Lundii Mörch, iii, 129.

- Lunula* Raf. . . ix, 76
Lunulata Kryn. . . ix, 254
Lunulata Mart. . . ix, 112
Lurida Gld. ii, 77.
Lurida Lwe. iv, 188; . ix, 240
Lurida Stud. ii, 146.
Lurida Zgl. iii, 174; . ix, 272
Luseana Paiva, iii, 31; . ix, 341
Lusitanica L. ii, 134.
Lusitanica Pfr. iii, 117; ix, 288
Lusoi Serv. . . ix, 256
Lutacea Pfr. iii, 217.
Lutea Mart. iii, 48.
Lutea Pils. viii, 267; . ix, 104
Lutea Pils. . . ix, 223
Lutea Pils. . . ix, 227
Lutea Semp. . . ix, 229
Luteata Parr. iii, 231; . ix, 249
Luteobrunnea Möll. viii, 120;
 [ix, 4
Luteocincta Semp. vii, 171;
 [ix, 221
Luteocornea Pfr. iii, 90; ix, 6
Luteofasciata D. & M. . ix, 307
Luteofasciata Lea, ii, 85.
Luteofusca Cox, vi, 144; ix, 131
Luteola Paul. . . ix, 301
Luteola Serv. . . ix, 257
Luteolina Gass. i, 120.
Lutescens D. & M. . ix, 307
Lutescens Kutsch, iv, 99.
Lutescens Ziegl. iv, 250; ix, 320
Lutosa Try. iii, 208; . ix, 206
Lutuosa Dh. viii, 212; . ix, 206
Luynesiana Bgt. . . ix, 320
Luzi Arango. v, 13; . ix, 187
Luzonica Mlldff. . . ix, 209
Luzonica Mlldff. . . ix, 344
Luzonica Sowb. . . ix, 222
Luzonicus Pfr. i, 174.
Luzonicus Sowb. . . ix, 230
Lybica error for *libyca* Pons.
 [viii, 185; ix, 261
Lychna Mab. vi, 52; . ix, 158
Lychnia Bens. ii, 50.
Lychnuchus Müll. v, 87; ix, 91
Lycica Mart. . . ix, 325
Lyelliana Lwe. iv, 41; . ix, 243
Lygæa M. & P. viii, 138; ix, 39
Lymphæus Morel. i, 183.
Lyndhurstensis Cox, ii, 169.
Lyndi Angas, vi, 183; . ix, 135
Lyra Mouss. . . ix, 48
Lyriostoma Swains. . . ix, 94
LYRODISCUS Pils. . . ix, 48
Lyrostoma Swains. . . ix, 94
LYRULA Woll. . . ix, 341
LYSINOE Ads. . . ix, 191
Lysistoma Shutt. . . ix, 303

Maackii Gerst. iii, 209; . ix, 204
Mabara Bgt. iii, 185.
Mabellei=*mabillei*.
Mabida Fag. iii, 238.
Mabillei Cr. iii, 216; . ix, 204
Macandrewiana Pfr. iii, 224;
 [ix, 336
Macarana Mhl. . . ix, 300
Macasi Higg. iv, 81; . ix, 198
Macdonaldi Cox, . ix, 35, 338
Macdougalli Iss. ii, 117.
Maceana Bgt. ii, 159.
Macfarlanei Cox, vii, 13; ix, 140
Macgillivrayi Cox, i, 171.
Macgillivrayi Forbes, vii, 55;
 [ix, 142
Macgregori Cox, iii, 127; ix, 84
Macgregori Hedl. viii, 285;
 [ix, 113
Machadoi Milne-Edw. . ix, 341
Macilenta Shuttlew. ii, 197.
Mackensiana Soul. ii, 19, 33.
Mackensii Ad. & Rv. iv, 52;
 [ix, 209
Maclayana Braz. vii, 45; ix, 142
Macleayi Cox, vi, 156; ix, 133
Macmurrayi C. B. Ad. v, 7;
 [ix, 67
Macnabiana Chitty. . ix, 58
Macneili Crosse, v, 96; . ix, 198
Maconelli Rve. vi, 76; . ix, 164
Macoyi Petterd. . . ix, 13
Macquariensis Cox, ii, 209.
Macroceramiformis Dh. ix, 171
MACROCERAS Semp. ii, 8, 107.
MACROCHLAMYS Bens. ii, 8, 87.

- MACROCYCLIS Beck, . ix, 165
 Macrocyclus Kob. iii, 219;
 [ix, 169
 MACROCYCLOIDES Mart. iii,
 [16, 48; viii, 113
 Macroglossa Pfr. v, 20; ix, 186
 Macrogonus Anc. . ix, 171
 Macromphala Bttg. . ix, 304
 Macromphalus W. Blf. iii,
 [160; ix, 146
 MACROOGONA, IX, xxxii, 148.
 Macroleuris Bens. iii, 94.
 Macrostoma Mhl. iv, 92; ix, 302
 Macrostoma Pfr. vii, 208;
 [ix, 227
 Mactanica Bgt. . ix, 263
 MACULARIA Alb. . ix, 331
 Macularia Lam. . ix, 180
 Macularia Mart. . ix, 322
 Maculata Hutt. . ix, 12
 Maculata Mke. . ix, 336
 Maculata Sut. viii, 96; . ix, 33
 Maculatum Raf. . ix, 69
 Maculifera Gut. v, 35; . ix, 185
 Maculosa Born. . ix, 335
 Maculosa Mart. . ix, 112
 Madagascariensis Lm. vi, 32;
 [ix, 157
 Madana L. & B. . ix, 263
 Maddocksi Braz. vii, 66; ix, 143
 Madecassina Fér. . ix, 157
 Madera Mab. vi, 50; . ix, 156
 Maderaspatana Gray, ii, 76.
 Maderensis Wood, iv, 37; ix, 243
 Madida Fag. . ix, 257
 Madritensis Ramb. iv, 16;
 [ix, 255
 Maforensis Tap.-Can. vi, 247;
 [ix, 119
 Magdalencæ Anc. . ix, 28
 Magdalenensis Stearns, viii,
 [226; ix, 199
 Magellanica Sm. iii, 42; ix, 41
 Magica Fér. . ix, 98
 Magistra Pfr. vii, 164; . ix, 224
 Magnaciana Hde. viii, 207;
 [ix, 206
 Magna Schum. . ix, 155
 Magnesiae Bttg. iv, 102; ix, 303
 Magnetti Cantr. viii, 236;
 [ix, 331
 Magnifica Fér. vi, 65; . ix, 153
 Magnifica Lea, . ix, 167
 Magnificus A. & N. i, 180.
 Magtanensis Semp. vii, 125;
 [ix, 219
 Mahdarina Bgt. . ix, 251
 Mahometana Bgt. . ix, 319
 Maillardii Dh. ii, 106.
 Mainitensis Hid. vii, 152; ix, 223
 Maino Braz. ii, 181.
 Majellæ Kob. . ix, 266
 Major Anc. . ix, 20
 Major Binn. iii, 150; . ix, 77
 Major Dohrn, vi, 128; . ix, 132
 Major Mlldff. . ix, 212
 Major Pfr. ii, 29.
 Major ii, 19.
 Majoricensis D. & H. iii, 258;
 [ix, 262
 Majuscula Pfr. vi, 255; ix, 121
 Malaccana Pfr. ii, 93.
 Malacensis Anc. . ix, 324
 Maladettæ (B.) Fag. . ix, 253
 Malantensis Ang. vii, 7; ix, 140
 Malaspinæ Bgt. iii, 180; ix, 274
 Malayana Mlldff. viii, 274;
 [ix, 124
 Malbatensis Hid. . ix, 124
 Malleata Fér, iv, 168; . ix, 327
 Malleata Q. & M. . ix, 216
 Malinowski Zel. ii, 194.
 Malzani Kob. iv, 254; . ix, 320
 Malziana Parr. iv, 227; ix, 333
 Mamilla Fér. vi, 212; . ix, 105
 Mamilla Lea, . ix, 182
 Mamillaris Blanf. ii, 131.
 Mamillaris Hde. ii, 123, 170.
 Mamillata Risso, iv, 117.
 Manchesterensis Bgt. . ix, 274
 Mandarinina Gray, vi, 124; ix, 214
 MANDARINA Pils. . ix, 214
 Mandralisci Biv. ii, 173.
 Manoeli Pfr. . ix, 96
 Manriquiana Lwe. . ix, 327
 Manseli Pfr.-Cless. . ix, 96

- Mansueta* Cox, vi, 264; ix, 122
Mantinica Mab. . ix, 251
Manueli Higg. v, 166; ix, 96
Maorianana Suter, . ix, 27
Marcescens Cox, iv, 50.
 [vi, 142; ix, 131
Marchetti Stef. . ix, 265
Marchianæ Cox, iii, 265;
 [ix, 35, 338.
Marcida Gld. ii, 95.
Marcida Sh. iii, 123; ix, 289
Maresi Crosse, . ix, 325
Margarita Beck, ii, 124.
Margarita Jacq. ii, 114.
Margarita Pfr. i, 173.
Margarita Pfr. ii, 201.
Margaritacea Schm. ii, 151.
Margaritacea Semp. ii, 118.
Margaritis Pfr. vi, 297; ix, 113
Margieriana Fag. . ix, 256
Marginata Born, . ix, 93
Marginata Hutt. viii, 60;
 [ix, 9
Marginata Müll. vi, 227;
 [ix, 109
Marginata Orb. . ix, 93
Marginatoides d'Orb. . ix, 93
Marginella Gmel. v, 124; ix, 93
Marginella Pfr. . ix, 93
Marginelloides d'Orb. v,
 [126; ix, 93
Marguerittei (B.) Pch. . ix, 324
Maricæ Cox, . ix, 131
Maricæ Gray, iii, 37; . ix, 9
Mariannæ Kob. iv, 222; ix, 331
Mariannæ West. ii, 158.
Marianarum Q. & M. . ix, 339
Mariei Crosse, i, 113.
Mariella H. Ad. viii, 196;
 [ix, 207
Marina Hutt. viii, 57; . ix, 9
Marinduquensis Hid. vii,
 [209; ix, 228
Maristorum Flor. . ix, 251
Maritima Dr. iii, 235; . ix, 249
Maritima Pils. . ix, 77
Marmatensis Pfr. v, 191; ix, 166
Marmorata Cox, ii, 105.
Marmorata Fér. iv, 147; ix, 325
Marmorata Taylor, . ix, 307
Marmorella Pfr. iii, 46; ix, 40
Marmorellata Mab. . ix, 331
Marmorosa H. & J. iii, 90;
 [ix, 6
Maroccana Mor. iii, 120; ix, 288
Marquesana Grt. viii, 96;
 [ix, 26
Marquesana Pse. ii, 113.
Marrucina Tib. . ix, 332
Marseveeni Bock, ii, 19.
Marshalli Try. ii, 101.
Marsiana Bgt. . ix, 254
Marsillyana Mab. . ix, 253
Martensiana Tib. iii, 203;
 [ix, 266
MARTENSIA Semp. ii, 6, 51.
Martensi Bttg. (radiosa var.).
Martensi Pfr. vi, 244; ix, 119
Martensi West. . ix, 266
Martigena Fér. . ix, 274
Martinatiana de Betta, . ix, 303
Martinezi Hid. ii, 175.
Martiniana Pfr. . ix, 89
Martini Bern. v, 149; . ix, 94
Martini Pfr. ii, 33.
Martini Schepm. ix, 112.
Martorelli Bgt. iii, 179; ix, 274
Masadæ Tristr. iv, 227; ix, 333
Mascarenasi Bgt. . ix, 256
Massiei Morl. viii, 223; ix, 214
Massoni Behn. ii, 47.
Massoti Bgt. iii, 29; . ix, 338
Massylæa Morel. iv, 144; ix, 325
Mastersi Braz. viii, 294; ix, 18
Mastersi Cox, i, 170.
Mastersi Cox, vi, 133; ix, 131
Mastigeulota Pilsbry, ix, 211
Masuriensis Aust. ii, 102.
Mataianensis Nev. iv, 59; ix, 207
Mathinæ Pett. . ix, 35, 338
Mathinnæ Pett. . ix, 338
Matronica Mab. . ix, 274
Matronoi Serv. . ix, 249
Matronula Uhde, . ix, 192
Matruelis Sowb. vii, 151; ix, 223
Mattarica Let. & Bgt. . ix, 326

- Mattiaca* Stein, . . ix, 310
Matura Pfr. iii, 88; . ix, 5
Maugeana Sh. iv, 175; . ix, 327
Maupiensis Grt. iii, 65; ix, 26
Maupitiensis Pfr. . . ix, 26
Maura Guirao, . . ix, 324
Mauriana Bgt. . . ix, 256
Mauriceti Bgt. ii, 158.
Mauricei Jouss. = *mauriti*.
Mauriniana Orb. . . ix, 342
Mauritanica Bgt. iii, 235; [ix, 249
Mauritiana Lam. ii, 24.
Mauritiana Pfr. ii, 24.
Mauritianella Morel. ii, 25.
Mauritii Jouss. v, 145; ix, 94
Maurolici Ben. ii, 189.
Maxillata Gld. iii, 141; ix, 78
Maxima Beck, . . ix, 165
Maxima Bgt. . . ix, 333
Maxima Pfr. ii, 31.
Maxulana Let. & Bgt. . ix, 251
Mayeti L. & B. . . ix, 250
Maynardi Pils. viii, 241; ix, 184
Mayrani Gass. iii, 13; . ix, 234
Mazatlanica Pfr. ii, 204; ix, 341
Mazee Braz. vi, 165; . ix, 134
Mazenderanensis Nev. iv, [229; ix, 333
Mazzinicola Greg. . . ix, 295
Mazzullii Jan. iv, 235; . ix, 318
Mazzulopsis Anc. viii, 238; [ix, 318
Meadei Braz. . . ix, 135
Meander G.-A. viii, 275; ix, 124
Medalpedensis Cl. iv, 261; [ix, 299
Meda Porro, iv, 17; . ix, 255
Medea West. viii, 192; ix, 277
Media Ad. v, 107; . ix, 89
Media Gmel. . . ix, 252
Medianus Cox, iii, 264; ix, 13
Mediata West, . . ix, 304
Mediocris Pfr. ii, 166.
Mediolanensis Fag. . ix, 256
Meditata Tap.-Can. vii, 40; [ix, 142
MEDITERRANEA Cless. ii, 143.
- Megastoma* Bgt. ii, 51.
Megastoma Bgt. . ix, 251
Megastoma Cox, i, 170.
Megei Lamb. i, 115.
Megerlei Jan. . . ix, 47
Mehadiæ Bgt. . . ix, 267
Mehediana L. & B. . ix, 256
Melaleucarum Gass. iii, 26; [ix, 33
Melania Bgt. . . ix, 256
Melanocephala Gundl. v, [46; ix, 182
Melanochila Val. vii, 150; [ix, 223
Melanogaster Mörch. . ix, 231
Melanonixia Bgt. . ix, 320
Melanostoma Drap. iv, 246; [ix, 320
Melanotragus Born, vi, 79, [ix, 154
Melaspinae error for *malaspinae* Bgt.
Melbournensis Cox, iii, 35; [ix, 34
Meleagris Pfr. iii, 81; . ix, 5
Melissophaga Costa, . ix, 319
Melitæ Gass. iii, 45; . ix, 33
Melitensis Fér. iv, 207; ix, 330
Mellæ Pini, . . ix, 254
Mellæa Pfr. vi, 97; . ix, 214
Melliniana Hagenm. . ix, 305
Mellissii Woll. ii, 176.
Mellita Hde. . . ix, 210
Mellitula Hde. . . ix, 210
Melolontha Shutt. iv, 30.
Melonii Malz. iv, 113; . ix, 305
Melosina Bgt. . . ix, 260
Melvillianæ Anc. . . ix, 340
Membranacea Jick. ii, 61.
Membranacea Lwe. iv, 201; [ix, 294
Membranaceus Bens. i, 177.
Membranicosta Pfr. iii, 76; [ix, 5
Membronica Berth. . ix, 257
Menadensis Mouss. ii, 82.
Mencii Hilb. . . ix, 206
Mendana Ang. vii, 17; ix, 140

- Mendanæ Cox, vi, 255; ix, 120
 Mendax Martens, iii, 212; [ix, 122
 Mendicaria Pfr. . ix, 274
 Mendoza Braz. vii, 21; ix, 140
Mendranoi Serv. . ix, 249
Menetriesii Kalen, . ix, 304
 Meninxica L. & B. . ix, 251
Menkeana Rve. ii, 80.
 Menkeana Pfr. iii, 108; ix, 37
 Menobana Bgt. . ix, 325
Menomphis Raf. . ix, 69
 Mensalis Hde. . ix, 210
 Mentonensis Sideb. iii, 229.
 Mentonica Nev. ii, 146.
 Mentonica Nevill. . ix, 322
 Menzelensis Let. & Bgt. ix, 251
 Meobambensis Pfr. v, 144; [ix, 94
 Merarcha Mab. vi, 235; ix, 107
 Mera Rve. iii, 94; . ix, 170
 Mercatoria Gray, vi, 121; [ix, 214
Mercatorina Mab. vi, 121; [ix, 107
 Mercedesi Serv. . ix, 256
 Mercurius Pfr. viii, 50; ix, 231
Meretrix Sowb. . ix, 109
 Merguiensis Phil. . ix, 116
 Meridionalis Braz. vi, 161; [ix, 134
 Meridionalis Iss. . ix, 44
 Meridionalis Mlldff. . ix, 204
 Meridionalis Mlldff. . ix, 220
 Meridionalis Parr. iv, 9; ix, 255
 Meridionalis Paul. ii, 191.
Meridionalis Risso, . ix, 264
 Meridionalis Sm. vii, 77; ix, 143
Meridionalis Wood, ii, 30.
 Merita Mouss. iv, 185; ix, 328
Merope Alb. . ix, 137
 Mersispira Mart. vi, 298; ix, 113
 Merziana Pfr. iii, 89; . ix, 5
 Merzianoides Garr. viii, 132; [ix, 6
 Mesembrica Let. & Bgt. ix, 251
Mesodon Raf. . ix, 69
 MESODONTOPSIS Pilsbry, ix, 310
 Mesoleuca Mts. . ix, 274
 Mesomphalos Mor. . ix, 198
 MESOMPHIX Raf. ii, 12, 196.
Mesopotamica Mouss. ix, 249 250
 Mesostena West. viii, 175; [ix, 255
 Mesostoma Westerl. iii, 238.
 Messanensis Suliotti, . ix, 331
 Messapia Blanc. iv, 19.
 Messenica Bl. & W. . ix, 272
 Metabola West, . ix, 255
 METACAMPYLÆA Pils. . ix, 310
 Metaformis Fér. vii, 186; ix, 225
 METAFRUTICICOLA Iher. ix, 276
 Meta Pfr. vii, 17; . ix, 140
 Metcalfei Pfr. viii, 121; ix, 4
 Meteora Bgt. . ix, 251
 Meticulosa Let. & Bgt. . ix, 251
 METODONTIA Mlldff. . ix, 279
Metonomastica Cr. & Fisch. [ii, 186.
Metula Crosse, . ix, 140
 Meyeri Strub. . ix, 342
 Mezessaria Let. & Bgt. . ix, 251
 Miara Mab. vi, 270; . ix, 124
 Micacea Hde. iii, 221; . ix, 170
 Mica Morel. ii, 107.
 Micans Ang. ii, 182.
 Micans Pfr. vii, 128; . ix, 221
 Miccylla Bens. ii, 176; . ix, 52
Michaudiana Rm. . ix, 302
 Michaudii Dh. iv, 21; . ix, 240
 Micholitzi Mlldff. viii, 272; [ix, 122
 Michoniana Bgt. iv, 229; ix, 333
 Micra Morel. ii, 176.
 MICRARIONTA Ancey, ix, 197
 Microconus Mouss. ii, 215.
 MICROCONUS Str. & Pfr. ix, 340
 Microcosmos Cox, ii, 179; ix, 340
 Microcyclus Bttg. viii, 113.
 MICROCYSTINA Mch. ii, 9, 124.
 MICROCYSTIS Beck, ii, 8, 112.
 Microdiscus Reinh. ii, 142.
 Microdonta Desh. . ix, 73
Microdonta Dh. . ix, 150
Microdonta W. G. B. . ix, 73
 Microforis Dall, iii, 138; ix, 73

- Microgyra* Bgt. . ix, 275
Microgyra Hde. ii, 122.
Micromphala Lwe. iv, 37;
 [ix, 243
Micromphalus Let. . ix, 257
Micromphalus Pils. vi, 247;
 [ix, 119
Micropetatus Mlldff. . ix, 279
Microphana Bgt. . ix, 256
Microphis Crosse, i, 114; ix, 84
Microphysa Martens, . ix, 54
Microphyura Anc. . ix, 84
Micropleuros Pag. iii, 28;
 [ix, 45
Micropristis Anc. . ix, 260
Microreticulata Sut. viii,
 [63; ix, 9
Microscopica Cox, not Kr. ii,
 [179; ix, 33
Microscopica Kr. iii, 106;
 [ix, 38
Microsoma Morel. ii, 176.
Microspila Bgt. . ix, 250
Microspira Pfr. vii, 145; ix, 222
Microstigmæa Silv. . ix, 45
Microstoma Lm. . ix, 97
Microtrochus Mlldff. . ix, 170
Microtrochus Möll. viii, 201;
 [ix, 170
Microtrochus Mörch. ii, 126.
Microundulata Sut. viii, 89;
 [ix, 28
Micula Mouss. ii, 61.
Middendorffi Gerst. iv, 111;
 [ix, 204
Midsoni Brazier, . ix, 34
Mighelsiana Pfr. iii, 212;
 [ix, 204
Migratoria Pfr. vii, 22; ix, 140
Miguelina Pfr. ii, 159.
Milaschewitschi Ret. . ix, 260
Milettiana Paul. iv, 220; ix, 332
Miliacea Mart. iv, 49.
Miliaria Gredl. . ix, 204
Militaris Pfr. . ix, 150
Milium Mart. iv, 49.
Milium Morse. ii, 203.
Millepunctata Bttg. viii, 178;
 [ix, 249
Millepunctata Smith, . ix, 343
Milleri Dohrn, . ix, 294
Milleri Pfr. v, 25; . ix, 184
Millestriata Smith, i, 130;
 [ix, 33
Millicentæ Cox, vii, 62; ix, 142
Millieri Bgt. viii, 228; . ix, 303
Milligani Braz. . ix, 13
Milligani Pfr. i, 172.
Miloni (B.) Péch. . ix, 326
Mima West. . ix, 234
Mimicula Hde. . ix, 204
Mimosa Pett. . ix, 34
Mimula Mlldff. . ix, 170
Mina Pfr. v, 125; . ix, 93
Mindaiensis Bock, ii, 19.
Mindanaensis Semp. ii, 31.
Mindanaensis Sby. vii, 148;
 [ix, 223
Mindana Rve. . ix, 223
Mindorana Hartm. . ix, 223
Mindoroensis Brod. viii, 52;
 [ix, 231
Minensis Mlldff. ii, 121.
Mingrelia Mouss. ii, 192.
Minima H. Ad. ii, 106.
Minor vi, 126; . ix, 132
Minor Bgt. . ix, 259
Minor Bttg. viii, 261; . ix, 173
Minor C. & F. vi, 302; ix, 156
Minor Fér. . ix, 119
Minor Kob. iv, 261; . ix, 335
Minor Malz. iv, 211; . ix, 330
Minor Mlldff. . ix, 224
Minor Musson, . ix, 159
Minor W. G. B. . ix, 199
Minorica Berth. . ix, 325
Minoricensis Mitt. iv, 148;
 [ix, 325
Minura West. ii, 145.
Minuscula Binn. ii, 202.
Minutalis Morel. ii, 202.
Minuta Aust. ii, 112.
Minuta Say, . ix, 283
Minuta Villa, ii, 158.
Minutissima Sm. viii, 94; ix, 28
Minutissimum Lea, . ix, 8
Minutula Crosse, ii, 119; ix, 20
Minutus G.-A. i, 182; ii, 112.

- Minviellei* Ph. . . ix, 41
Minythodes M. & P. viii,
 [144; ix, 38
Mionecton Bttg. viii, 260;
 [ix, 284
Mirabilis Fér. vii, 181; ix, 224
Miranda Ad. vi, 104; ix, 214
Mirandæ Lwe. iv, 26; ix, 261
Mirandæ Ramb. . . ix, 254
Miranda Hutt. viii, 68; ix, 15
Misara B. . . ix, 257
Miscella West. . . ix, 262
Misella Fér. ii, 115.
Miser Cox, vii, 20; . ix, 140
Mista West. . . ix, 260
Mitanensis Gr.-A. viii, 195;
 [ix, 209
Mitchellæ Cox, vi, 154; ix, 133
Mitchelliana Lea, iii, 151; ix, 77
Mitidjana Anc. . . ix, 260
Mitigata Mouss. . . ix, 258
Mitis Pfr. ii, 171.
Mitiuscula Mart. ii, 97.
Mitra Alb. . . ix, 291
Mixta Cox, iii, 261.
Mnenia West. . . ix, 266
Moabitica Goldfuss, . ix, 320
Mobiliana Lea, . . ix, 77
Modrata Mouss. iv, 26; ix, 261
Modesta Fér. iv, 167; ix, 327
Modesta Moq. iv, 92; . ix, 303
Modesta Parr. . . ix, 266, 278
Modesta Sowb. viii, 35; ix, 230
Modica Morel. iii, 236; ix, 255
Modicella Fér. iii, 38; . ix, 35
MOELLENDORFFIA Anc. ix, 289
Moerchiana Aust. ii, 125.
Moesta Parr. iii, 233; . ix, 249
Mogadorensis Bgt. iv, 22; ix, 261
Mograbina Mor. iv, 22; ix, 261
Mola Hde. . . ix, 204
Molecula Bens. ii, 103.
Molinæ Hid. iv, 15; . ix, 255
Molina Hde. . . ix, 287
MOLLENDORFFIA Anc. ix, 289
Möllendorffi Hid. . . ix, 228
Möllendorffi Kob. iv, 95; ix, 302
Möllendorffi Reinh. ii, 123.
- Mollerati* Morel. . . ix, 301
Molliseta Pfr. vi, 246; . ix, 119
Moltenii Ad. . . ix, 331
Moltneri Gredl. . . ix, 279
Moluccensis Pfr. . . ix, 113
MONACHA Fitz. . . ix, 271
Monacha Mab. vi, 47; . ix, 157
Monacha Pfr. vi, 133; . ix, 131
MONADENIA Pils. . . ix, 198
Monaecensis Ramb. . . ix, 322
Monas Morel. iii, 54; . ix, 281
Monerea Bgt. . . ix, 251
Monerebia Mab. . . ix, 266
Moneriana Bgt. viii, 165; ix, 249
Mongolica Mldff. viii, 206;
 [ix, 206
Mongrandiana Bgt. . ix, 274
MONILEARIA Mouss. . ix, 257
Monile Brod. v, 192; . ix, 167
Monilifera W. & B. iv, 20;
 [ix, 258
Monistrolensis Fag. . ix, 256
Moniziana Paiva, iv, 34; ix, 245
Monochroa Sowb. vi, 208;
 [ix, 104
Monodon Fér. . . ix, 278
Monodon Rack. iii, 142; ix, 78
Monodon Villa, iii, 188; ix, 272
Monodonta Grat. ii, 27.
Monodonta Lea, v, 21; ix, 186
Monographa Dör. . ix, 198
Monolacca Pfr. v, 182; ix, 166
Monomena Bens. ii, 57.
MONOMPHALUS Ancey, ix, 19
Monozonalis Lam. ii, 76.
Monozonata Poll. . ix, 303
Monozona Z. . . ix, 300
Monozonus Pfr. . . ix, 227
Monstrosa Anc. viii, 82; ix, 35
Montana Paul. iv, 107; ix, 301
Montana Stud. . . ix, 322
Montana Semp. vii, 191; ix, 225
Montana Sterki, . . ix, 283
Montana Stud. iii, 175; ix, 274
Montana Sut. . . ix, 32
Montandoni Cless. iii, 251.
Montalivetensis Smith, ix, 343
Montenegrina Zgl. iv, 88; ix, 300

- Montetaurina* Pfr. iii, 97; ix, 58
Montfortiana Pfr. vii, 165; [ix, 224
Montgiscardiana Fag. . ix, 256
Monticola Bens. i, 176.
Monticola Hutt. ii, 107.
Monticola Mlldff. ii, 67.
Monticula Sowb. vii, 176; [ix, 225
Montigena Hagen. . ix, 305
Montium Mts. . . ix, 214
Montivaga Fag. . . ix, 257
Montivaga Sut. . . ix, 339
Montivaga West. . ix, 274
Montrouzieri Souv. i, 113.
Montserratensis Hid. iii, 257; [ix, 260
Mooreana Grt. ii, 119.
Mooreana W. G. B. iii, 135; [ix, 74
Moqueroni Bgt. iv, 18.
Moquiniana Raym. iii, 181; [ix, 274
Mora Gray, . . ix, 89
Moraguesi Kob. iii, 255; ix, 260
Morata Mouss. iv, 43; . ix, 260
Morbida Morel. v, 35; . ix, 184
Morbihana Bgt. . . ix, 252
Morbosoalbina Rossm. . ix, 307
Morchia Alb. ii, 13, 208.
Mörchiana Aust. ii, 125.
Mörchii Pfr. ii, 85.
Mörchii West. . . ix, 274
Mordax Shutt. iii, 57; . ix, 50
MORELETIA Gray, ii, 11, 185.
Moreletiana Hde. vi, 110; [ix, 214
Moreleti Pfr. vii, 165; . ix, 224
Moreri Fag. . . ix, 257
Moresbyi Ang. vi, 160; ix, 134
Moretonensis Pfr. iii, 86.
Moricandi Beck, . . ix, 167
Moricandi Sowb. vi, 222; ix, 108
Moricola Pal. iv, 13; . ix, 255
Morini Bgt. . . ix, 260
Morio Canefri, viii, 128; ix, 5
Morlachica Parr. ii, 135.
Morleti D. & H. vi, 240; ix, 107
Mormonum Pfr. iv, 70; ix, 199
Morongensis Mlldff. viii, 270; [ix, 108
Morongensis Mlldff. . ix, 337
Morosa Morel. vi, 134; . ix, 131
Morosula Gass. . . ix, 33
Morsei Dall, iii, 139.
Morsei Tryon, ii, 162.
Mortella Serv. ii, 143.
Mortella Serv. . . ix, 273
Morti Cox, iii, 34; . ix, 34
Mortilleti Pecchio, ii, 154.
Mortoni Jeffer. ii, 173.
Morula Hid. . . ix, 94
Moseleyi Smith, vii, 72; ix, 143
Mosellica Bgt. . . ix, 204
Mossmani Braz. vi, 152; ix, 133
Motacilla Pfr. vii, 66; . ix, 142
Mouensis Cr. iii, 95; . ix, 53
Mouhoti Reeve, ii, 18.
Mouhoti Pfr. ii, 85, 86.
Moulinsii P. & M. . ix, 301
Moupiniana Dh. ii, 103; ix, 205
Mouqueroni Bgt., Loc. . ix, 226
Mourilyana Braz. vi, 172; [ix, 134
Mouroi Serv. iii, 229.
Moussoniana ii, 43.
Moussoniana Marts. . ix, 209
Moussoniana Woll. iv, 145; [ix, 325
Moussoni Kob. ii, 195.
Moussoni Pfr. ii, 72.
Moussoni Semp. ii, 44.
Moussoni Sut. viii, 105; ix, 32
Moutoni Mitt. iii, 186; . ix, 275
Moyobambensis Moric. i, 65.
Mozambicensis Pfr. ii, 50.
Mucida Pfr. vi, 148; . ix, 122
Mucoides Ten.-Woods, iii, [44; ix, 34
Mucosa Blanf. ii, 87.
Mucronata Mlldff. viii, 198; [ix, 280
Mucronata Pfr. ii, 27.
Muggianica Stoss. . ix, 256
Mühlfeldtiana Pfr. vi, 15; [ix, 159

- Mühlfeldtiana* Zgl. . ix, 254
Mulgoæ Cox, vi, 136; . ix, 130
Mulgravei Braz. . ix, 134
Mulgravensis Braz. vi, 168;
 [ix, 134
Mullani Bld. iii, 145; . ix, 76
Mulleri Pfr. ii, 31.
Multicostata Hemph. viii,
 [116; ix, 50
Multidentata Binn. ii, 198.
Multifaria Zgl. iii, 260.
Multifasciata W. & M. v, 30;
 [ix, 184
Multigranosa Mouss. iv, 36;
 [ix, 274
Multilamellata Grt. iii, 63;
 [ix, 26
Multilimbata H. & J. . ix, 18
Multilineata Hemph. . ix, 200
Multilineata Say, iii, 150;
 [ix, 76
Multinotata Mouss. . ix, 250
Multipunctata Mouss. iv, 43;
 [ix, 260
Multispira Mlldff. iii, 158;
 [ix, 146
Multispira Pfr. ii, 147.
Multispirata H. & J. iii, 127;
 [ix, 84
Multistriata Dh. v, 49; ix, 180
Multisulcata Gass. i, 118.
Multizona Less. vii, 39; ix, 142
Multizonata Desh. . ix, 142
Mumia Hombr. ii, 36.
Munda Bens. iii, 106.
Munda C. B. Ad. v, 9; . ix, 67
Munieriana C. & D. . ix, 275
Munipurensis G.-Aust. ii, 62.
Munipurensis G.-A. iii, 160;
 [ix, 146
Muralis Müll. iv, 205; . ix, 331
Muraloides Chier. . ix, 324
Murata Hde. iii, 159; . ix, 146
Murcica Guir. . . ix, 255
Murcica Rm. . . ix, 324
Murdochi Suter, . . ix, 338
MURELLA Pfr. . . ix, 330
Murina Pfr. vi, 148.
- Murphyi* Cox, iii, 46; . ix, 34
Murrayana Pfr. . . ix, 34
Murriensis Nev. ii, 108.
Murustagensis West. . ix, 259
Mus Brod. viii, 6; . ix, 228
Muscarum Lea, v, 54; . ix, 189
Muscicola Bgt. iii, 174; ix, 272
Muscicola Ph. iii, 43; . ix, 41
Musdorfensis Serv. . ix, 307
Musicola Shutt. iii, 97; ix, 57
Musignani Parr. ii, 147.
Mustelina Lwe. iv, 46; ix, 243
Mutabilis Hartm. . . ix, 322
Mutabilis Sut. viii, 101; ix, 339
Mutata Gld. i, 66.
Mutata Lam. . . ix, 319
Mutica Morel. iii, 184.
Mycena Alb. . . ix, 326
Myomphala Mts. vi, 107;
 [ix, 214
Myopa West, . . ix, 234
Myops D. & S. ii, 121.
Myristica Sh. iv, 194; . ix, 294
Myristigmæa Bgt. . . ix, 324
Myrmecidis Scac. . . ix, 44
Mysolensis Pfr. vii, 43; ix, 142
Mystagoga Mab. viii, 193;
 [ix, 209
Nactara Serv. . . ix, 253
Nadorrica West, viii, 233;
 [ix, 330
Nævia Gmel. v, 38.
Nævula Morel. v, 34; . ix, 187
Nagaensis G.-Aust. ii, 63.
Nagaensis G.-Aust. iii, 161;
 [ix, 146
Nagporensis Pfr. iii, 33.
Nahoni Kob. . . ix, 322
Nahrouasselina Bgt. . ix, 257
Najas Pfr. vii, 115; . ix, 221
Namaquana Mts. viii, 297;
 [ix, 37
Namaquensis M. & P. viii,
 [262; ix, 173
Namoiensis Cox, i, 124.
Namurensis Colb. . ix, 254
Nana Bttg. . . ix, 266

- Nana Hutt. ii, 64.
Nana Jeffr. iii, 173; . ix, 274
Nana Mlldff. iii, 158; . ix, 146
Nana Mlldff. . ix, 342
Nana Mouss. . ix, 333
Nana Semp. vii, 155; . ix, 220
Nana Wagn. i, 64.
NANINA Gray, ii, 4, 15.
Naninoides Bens. ii, 79.
Nannodonta A. D. Br. v, 103.
Nansoutyana Bgt. . ix, 257
Napensis Crosse, v, 188; ix, 166
Narbonensis Cless. ii, 140.
Narbonensis Req. . ix, 255
Narentina Klec. iv, 99; ix, 301
Narzanensis Kryn. iv, 84; [ix, 304
Naso Mart. vii, 56; ix, 142
Nasuta Metc. ii, 21.
Natalensis Pfr. iii, 103.
NATALINA Pils. viii, 135.
Naticoides Drap. . ix, 318
Naticola Alb. ii, 194.
Natunensis Smith, . ix, 337
Naudieri Bgt. . ix, 251
Naujanica Hid. viii, 268; [ix, 104
Nautarum Hde. iii, 183; ix, 275
Nautica Loc. . ix, 251
Nautiliformis Porro. iii, 114; [ix, 287
NAUTILINUS Mss. ii, 11, 172.
Nautiloidea Cox, . ix, 34
Nautiloides Val. iii, 212; ix, 124
Nautinica Mab. iii, 251.
Navarrica Bgt. ii, 150.
Navigatorum Pfr. iii, 90; ix, 6
Naxiana Fér. iv, 115; ix, 277
Nazarensis Mouss. . ix, 234
Nazarina (B.) Serv. . ix, 307
Neapolitana Paul. iv, 91; ix, 301
Nebrodensis Prj. iv, 220; ix, 332
Nebulata Mke. . ix, 274
Nebulosa Blanf. ii, 97.
Nebulosa Pfr. viii, 29; ix, 229
Neftana Bgt. . ix, 250
Neglecta Braz. iii, 87; ix, 34
Neglecta Drap. iii, 243; ix, 252
Neglecta Pils. viii, 124; ix, 4
Neherensis Bens. iii, 33.
Nelsonensis Braz. ii, 169.
Nematophora Pfr. ii, 114.
Nemesiana Bgt. iii, 31; ix, 45
Nemetuna Bgt. . ix, 267
Nemoralina Pet. v, 22; ix, 186
Nemoralis Müll. ii, 71.
Nemoralis Linn. iv, 122; ix, 322
Nemoraloides Ad. v, 40; ix, 183
Nemoraloides Kob. . ix, 322
Nemoraloides Martens, ix, 322
Nemorensis Müll. ii, 71.
Nengloensis Aust. ii, 98.
NEOCEPOLIS Pils. . ix, 106
Neogranadensis Pfr. v, 153; [ix, 94
Neohelix Ihering, . ix, 69
Neopolitana Andr. . ix, 252
Neozelanica Auct. . ix, 30
Neozelanica Hutt. . ix, 13
Nepanensis Braz. ii, 181.
Nephæca Fag. . ix, 253
Nepos Pfr. ii, 89.
Neptunus Pfr. ii, 34.
Nerissa Hutt. . ix, 9
Neritoides Ch. . ix, 318
NESOPHILA Pilsbry, . ix, 27
Neuwardii DeHaan. ii, 71.
Nevesiana Silv. . ix, 274
Nevilli Ad. ii, 25.
Nevilliana Paul. ii, 148.
Nevilli G.-Aust. ii, 65.
Nevisensis Pils. v, 89; ix, 91
Newberryanum Binn. iii, [110; ix, 193
Newcombiana Poey, ix, 184
Newcombi Hemph. viii, 115; [ix, 50
Newcombi Pfr. i, 171.
Newka Dohrn, iv, 29; ix, 262
Newkopsis L. & B. . ix, 262
Newtoni Nev. iii, 27; ix, 38
Niahensis G.-A. vii, 85; ix, 170
Nicaensis Risso. . ix, 331
Nicaiana Let. . ix, 272
Nicatis Costa iv, 101; ix, 302
Niciensis Fér. iv, 214; ix, 331

- Nickliniana* Lea. iv, 73; ix, 199
Nicobarica Chemn. ii, 15.
Nicolai Klec. iv, 98; ix, 301
Nicolisiana Ad. viii, 227; ix, 303
Nicolsinianum Montf. ix, 180
Nicomede Braz. vi, 173; ix, 134
Nicosiana Mss. iii, 189; ix, 272
Niger Quoy, i, 169.
Nigraus Sm. viii, 128; ix, 5
Nigrescens Kobelt, ix, 344
Nigrescens Locard, ix, 307
Nigrescens Semp. ix, 229
Nigrescens Wood, v, 91; ix, 91
Nigricans Mlldff. ix, 224
Nigrilabris v. Mts. vi, 179; [ix, 135
Nigritella Martens, ix, 1
Nigritella Pfr. iii, 78; ix, 6
Nigrocincta Semp. viii, 50; [ix, 231
Nigrofasciata Pfr. vii, 71; [ix, 143
Nigrolabiata Mlldff. ix, 225
Nigropicta Arango, v, 47; [ix, 182
Nigropurpurea C. & F. vi, [302; ix, 156
Nigrozonata Bgt. ix, 319
Nikitai Cless. iii, 251.
Nilagirica Pfr. iv, 65; ix, 116
Nilotica Bgt. iv, 249; ix, 320
Nimbosa Brod. viii, 21; ix, 228
Nimbosa Cr. vi, 101; ix, 214
Nilssoniana Bk. ix, 255
Ningpoensis Bttg. viii, 194; [ix, 209
Ninivita Gall. viii, 238; ix, 333
Niphas Pfr. iv, 196; ix, 293
Nipponensis Kob. ix, 214
Nisoria Rm. iv, 104; ix, 302
Nitefacta Bgt. ix, 326
Nitella Morel. ii, 106.
Nitellina Bgt. ii, 195.
Nitens Alten, ii, 149.
Nitens Mat. & Rack, ii, 155.
Nitens Mich. ii, 150.
Nitens Shepp. ii, 145.
Nitensoides d'Orb. ii, 164.
Nitescens Andr. ii, 171.
Nitida Drap. ii, 149.
Nitida Müll. ii, 171.
Nitida Risso, ii, 150.
Nitidissima Baud. ii, 138.
Nitidissima Mlldff. ii, 104.
Nitidissima Smith, ii, 111.
Nitidiuscula Bttg. viii, 284; [ix, 112
Nitidiuscula Sowb. iv, 188; [ix, 240
Nitidopsis Morel. ii, 166.
Nitidosa Fér. ii, 153.
Nitidula Alten. ii, 173.
Nitidula Drap. ii, 152.
Nitidula Stud. ix, 283
Nitidulus Dohrn. i, 66.
Nivalis Ménétr. ix, 304
Nivariæ Woll. iv, 169; ix, 327
Nivariensis Sh., Rve. ix, 258
Nivea Gmel. undet. *Helicella*.
Nivea Zgl. ix, 268
Nivellina Bgt. ix, 268
Nivosa Sowb. iv, 190; ix, 293
Nobilis C. B. Ad. v, 103; [ix, 89
Nobilis Pfr. ii, 37.
Nobilis Rve. ii, 36.
Nobilis Rve. ix, 228
Noctuabunda Bgt. ii, 145.
Noctuella Bgt. ix, 257
Nodifera Pfr. vii, 37; ix, 141
Nodosostriata Mouss. ix, 261
Nodosum Raf. ix, 69
Nodulata Mouss. ii, 124.
Nomechosi Let. iii, 250.
Nomophila Bgt. ix, 256
Nongsteinensis G.-A. ii, 66.
Nora H. Ad. ix, 205
Nordenskiöldi West. iii, 201; [ix, 274
Nordmanni Parr. iv, 251; [ix, 320
Normalis Martens, ix, 150
Normalis Pse. ii, 116.
Norodomiana Morl. vi, 270; [ix, 124
Norrisii Sowb. vii, 143; ix, 223

- Nortoni Braz. . . ix, 142
 Norvegica Esm. ii, 172.
 Noscibilis Fér. v, 63; . ix, 97
 Nossibeensis Bttg. vi, 40; [ix, 157
Notabilis Fér. . . ix, 97
Notata Dh. . . ix, 77
Notata Poey, . . ix, 74
 Nouleti LeGuill. ii, 77.
 Noumeensis Crosse, ii, 167; [ix, 33
 Nova Bgt. . . ix, 256
 Nova Paul. . . ix, 263
 Novacula Mart. vi, 33; ix, 157
 Novægeorgiensis Cox, vii, [72; ix, 143
 Novæhiberniæ Q. ii, 39.
 Novæhollandiæ Gray, vi, 91; [ix, 129
 Novaræ Pfr. . . ix, 18
 Novella Pfr. ii, 41.
 Noverca Friv. iv, 115; ix, 277
 Novoguineensis Pfr. vii, 42; [ix, 142
 Novoseelandica Pfr. ix, 30
 Nubeculata Desh. v, 191; ix, 166
 Nubigena Charp. vi, 84; ix, 252
Nubigena Lowe, iii, 223.
Nubila Charp. . . ix, 252
Nubila Zgl. iv. 106. . ix, 302
 Nucleatus Stol. i, 177.
 Nucleola Rang, v, 82; . ix, 91
 Nucleus Dh. iii, 207; . ix, 204
 Nucula Parr. iv, 247; . ix, 320
 Nuda Pfr. ii, 88.
 Nudata West. . . ix, 273
 Nullarborica Tate, vi, 181; [ix, 131
Numidia Issel. . . ix, 258
 Numidica Moq. iv, 24; ix, 263
 Nummuliformis Ret. . ix, 260
Nummulina Kob. . ix, 268
 Nummus Ehr. iii, 199; ix, 268
 Nummus Issel. iii, 82; ix, 5
Nupera Brazier, ii, 210; ix, 34
 Nupta West. . . ix, 320
Nuttalliana Lea. . . ix, 199
 Nuxdenticulata Chemn. v, 82; [ix, 91
 Nux Mlldff. vi, 307; . ix, 214
 Nux Semp. viii, 5; . ix, 228
 Nya Let. . . ix, 251
 Nyassana Smith, ii, 128.
 Nyelii Mitt. iii, 258; . ix, 260
 Nympha Pfr. . . ix, 220
 Nympha Pfr. viii, 23; . ix, 228
 Nymphæa Dub. . ix, 304
 Nystiana Pfr. . . ix, 199
 Oajacensis Koch. iii, 50; ix, 199
 OBBA Beck, . . ix, 107
Obba Martens, . . ix, 105
Obbina Semp. . . ix, 107
 OBBINULA Stache, . ix, 295
 Obconica Pse. ii, 49.
 OBELUS Hartmann, . ix, 261
 Oberndoerferi Kob. iv, 217; [ix, 331
 Oberthuri Anc. . . ix, 256
 Obesa Beck, v, 83; . ix, 91
 Obesior Mart. ii, 91.
 Obliquata Dh. vii, 116; ix, 221
 Obliquata Mart. . . ix, 112
 Obliquata Rve. ii, 76.
 Obliquerrugosa Smith, . ix, 343
 Oblita Pfr. ii, 98.
 Obliterata Fér. v, 69; . ix, 99
Obliterata Hartm. . ix, 252
 Oblonga Sowb. viii, 269; ix, 104
 Obnubila Rve. i, 120; . ix, 13
 Obolus Gld. iii, 61; . ix, 25
 Obruta Morel. iv, 6; . ix, 255
 Obscura C. & F. vi, 302; ix, 156
Obscura C. & F. . . ix, 190
 Obscura Dh. iii, 206; . ix, 205
 Obscura Mlldff. vi, 230; ix, 109
 Obscura Mouss. . . ix, 272
 Obscura Pils. . . ix, 199
 Obscurata A. & R. iii, 48.
 Obscurata Porro, ii, 190.
Obscurata Rossm. ii, 190.
 Obserata Lwe. iv, 40; . ix, 241
Obsita Pfr. . . ix, 199
 Obsoleta Pils. . . ix, 76

- Obstricta* Say, iii, 148; ix, 77
Obstructa Fér. iii, 196; ix, 266
Obstructa Hde. not Fér. ix, 279
Obstrusa Fér. . ix, 266
Obtecta Lwe. iv, 35; . ix, 241
Obtecta Reinh. vi, 362; ix, 120
Obtecta West. . ix, 272
Obtusalis Mouss. . ix, 320
Obtusa Pfr. vii, 132; . ix, 222
Obtusa West. ii, 171.
Obtusangula Pfr. ii, 114.
Obtusangula Reinh. ii, 178.
Obtusata Ziegl. . ix, 320
Obversa Born. . ix, 330
Obvia Mke. . ix, 252
Obvoluta Müll. iii, 115; ix, 287
Ocampi Streb. iv, 76; . ix, 68
Occidentalis Recl. iii, 180;
 [ix, 274
Occlusa Gass. i, 122; . ix, 54
Occlusa Mouss. . ix, 333
Oconella Let. & Bgt. . ix, 251
Occulta Biv. . ix, 266
Occulta Pfr. vi, 266; . ix, 122
Occultata Paul. . ix, 302
Occultus Cox, iii, 264; ix, 10
Oceanica Le Guill. iii, 46.
Ocellata Parr. iii, 191.
Ocellus Villa. . ix, 252
Ochracea Zieg. . ix, 266
Ochsenii Phil. ii, 166.
Ochthephila Beck, . ix, 243
Ochthephila Orb. i, 64.
Ochthoplax Bens. vi, 202;
 [ix, 104
Oconnellensis Cox, vi, 158;
 [ix, 134
Oeskayi Stentz. . ix, 288
Octinella Bgt. viii, 55; ix, 234
Octogyrata Mouss. iii, 118;
 [ix, 288
Ocotlamellata Grt. viii, 95;
 [ix, 26
Oculatus Montf. . ix, 93
Oculuscapri Müll. ii, 134.
Oculus Pfr. iv, 59; . ix, 210
Odarsensis Fag. . ix, 256
Odeca Bgt. . ix, 271
Odomphium Raf. . ix, 69
Odontina Morel. ii, 27.
Odontognatha Mörch. ix, xxiii.
Odontophora Bens. iii, 157;
 [ix, 148
ODONTOSAGDA Martens, ix, 64
Odontura F. & C. . ix, 191
Odopachya Bgt. iv, 140; ix, 325
Odotropis Raf. . ix, 69
Oecoscia Bgt. ii, 143.
Oecoscia Bgt. . ix, 275
Oedesima Nev. . ix, 322
Oelandica West. . ix, 307
Oenostoma Dh. viii, 223;
 [ix, 204
Oenostoma Lwe. . ix, 293
Oertzeni Malz. iii, 229.
Oetæa Mart. . ix, 303
Oetæ Kob. iv, 143; . ix, 326
Officierii Cox, iii, 266; . ix, 34
Ogiaca Serv. . ix, 250
Oglei G.-Aust. iii, 159; ix, 146
Ogygiaca West. . ix, 263
Okeniana Pfr. v, 110; . ix, 90
Oldhami Bens. iv, 61; . ix, 209
Oleacea Sh. iv, 20; . ix, 258
Oleacina Semp. iii, 77; ix, 6
Olearis West. ii, 158.
Oleosa Pfr. ii, 127.
OLIGOSPIRA Anc. . ix, 154
Olisippensis Serv. . ix, 256
Olivacea Bttg. . ix, 304
Olivacea Mlldff. . ix, 228
Olivacea Pils. vi, 300; . ix, 156
Olivacea Sut. viii, 75; . ix, 18
Olivaresi Serv. iii, 229.
Olivetorum Herm. ii, 188.
Oliviaria Iss. . ix, 265
Olivieri C. Pfr. . ix, 266
Olivieri Fér. iii, 191; . ix, 266
Olneyæ Pils. . ix, 76
Oltisiana Fagot. ii, 172.
Olympica Roth. iv, 101; ix, 303
Omalsima Bgt. . ix, 47
Omalomorpha Orb. i, 64.
Omega Pfr. . ix, 18
Omicron Pfr. i, 115; . ix, 34
Omissa Pfr. ii, 175.

- Omoia Mab. vi, 46; . ix, 157
 OMPHALINA Raf. ii, 11, 183.
 Omphalion Bens. iii, 108; [viii, 135
 Omphalodes Pfr. vi, 26; ix, 157
 Omphalophora Dut. . ix, 305
Oncopila error for *uncopila* Hde.
Oneataensis Mouss. ii, 119.
Onixiomiera Bgt. iv, 240; ix, 319
Onslowi Braz. . ix, 34
Onychina Rm. . ix, 267
Onyx Brod. vii, 199; . ix, 227
Oomorpha Mab. vi, 49; ix, 153
Oomorpha Sowb. viii, 269; [ix, 104
Opaca Mart. ii, 73.
Opaca Shuttlew. ii, 148.
Opalina Ad. ii, 201.
Opalina Sowb. viii, 42; ix, 230
Opanica Ant. iii, 67; . ix, 26
Opaoana (Rhytida) Gass. iii, 45.
Oparana Beck, . ix, 23
Oparica Auct. iii, 67; . ix, 26
Ophelia Pfr. ii, 211; . ix, 16
Ophidermis Agas. . ix, 166
Ophiodermis Herrm. . ix, 166
Ophiogyra Alb. . ix, 81
Ophiospila Anc. . ix, 166
Ophiria Pfr. i, 128.
Opiparus Aust. ii, 101.
Oppenheimi Greg. . ix, 295
Oppidi Fag. . ix, 257
Oppilata Morel. iii, 133; ix, 74
Opposita Mouss. iv, 257.
Oppressa Pse. iii, 78; . ix, 6
Oppressa Shuttlew. ii, 148.
Opulens West. iii, 20; . ix, 47
Oquirrhensis Hemph. . ix, 50
Oranensis Morl. iii, 249; ix, 249
Oranica Bgt. . ix, 324
Orata Let. ii, 145.
Orbicula Hutt. not Orb. ix, 209
Orbicula Orb. i, 251.
Orbiculata Fér. v, 86; . ix, 91
Orbiculata Wood. . ix, 327
Orbiculum Tap.-Can. ii, 219.
Orbigny W. & B. iii, 237; [ix, 258
Orbis Beck, ii, 114.
Orbitula Sowb. vii, 179; ix, 225
Orcella Stol. . ix, 52
Orcula Bens. ii, 177; . ix, 52
Ordinaria Smith, ii, 164; ix, 41
Ordunensis Kob. viii, 161; [ix, 255
Oreas Koch, v, 136; . ix, 94
Oregonensis Hemph. . ix, 76
Oregonensis Lea, . ix, 199
Oreina Fag. . ix, 257
OREOBBA Pilsbry, . ix, 109
Oresigena Orb. . ix, 198
Oreta Bgt. . ix, 251
Orgonensis Philb. . ix, 331
Originaria Aust. ii, 100.
Orites Westerl. . ix, 331
Oriunda Gass. i, 121; . ix, 54
Ornata Parr. . ix, 301
Ornatella Beck, ii, 115.
Ornatella Pfr. ii, 112.
Ornatissima Bens. ii, 95.
Orobia Alb. ii, 8.
Orobia Bens. ii, 108.
Orobæna Anc. . ix, 76
Orophea West. . ix, 260
Orotavana Tarnier, . ix, 258
Orphana Hde. . ix, 44
Orphea West. . ix, 260
ORPIELLA Gray, ii, 7, 68.
Orsinii (Porro) Villa, iii, [203; ix, 266
Orta Paul. iv, 224; . ix, 332
Orthocheilis Hde. . ix, 209
Orthostoma Pfr. ii, 47.
ORTHOSTYLUS Beck, . ix, 227
Ortoni Crosse, iii, 127; . ix, 83
ORUSTIA Mörch. . ix, 225
Orythia Mts. viii, 210; ix, 206
Osbecki Phil. iv, 59.
Oscarensis Cox, viii, 279; [ix, 131
Oscari Kim. ii, 159.
Oscitans Mts. iv, 47; . ix, 204
Osculans C. B. Ad. iii, 8; ix, 64
Osoriensis Woll. ii, 160.
Ossetinensis Bayer. . ix, 304
Ossica Bttg. iv, 102; . ix, 303

- Ostiolum* Cr. ii, 180; . ix, 33
Osculum Thomae, . ix, 289
Otaheitana Fér. ii, 30.
Otala Beck, . ix, 96
OTALA Schum. . ix, 322
Otareæ Garr. ii, 77.
Otareæ Grt. . ix, 35
Otellina Riise. iii, 98; . ix, 58
Otis Beck, ix, 94.
OTOCONCHA Hutt. i, 253.
Otostoma Pfr. v, 176; . ix, 96
Othiana Fbs. iii, 11; . ix, 234
Ottoi Serv. . ix, 253
Ottonis Pfr. ii, 161.
Otwayensis Petterd. . ix, 34
Oualanensis Pse. iii, 41; ix, 35
Ousterea Mab. iv, 114; ix, 266
Outangensis Crosse, . ix, 287
Ouveana Souv. i, 120.
Ovatus Blanf. i, 176.
Oviformis Grat. vi 68; ix, 153
Oviformis Semp. viii, 40; ix, 230
Ovirensis Rm. iii, 172; ix, 278
Ovivitellus Rve. ii, 71.
Ovoidea Brug. viii, 43; ix, 230
Ovularis Bgt. iii, 174; . ix, 272
Ovularis Mke. . ix, 225
Ovumreguli Lea, v, 44; . ix, 182
Ovum Val. ii, 30.
Oweniana Pfr. ii, 32.
Orychilus Fitz. ii, 10.
OXYCHONA Mörch. . ix, 189
Oxygnatha Mörch. ix, xxiii.
Oxygyra Boiss. . ix, 268
Oxygyra West. . ix, 260
Oxynota Hartm. . ix, 261
Oxystoma Smith. . ix, 141
Oxytenes A. D. Brown, v, 103.
Oxytes Bens. ii, 129.
OXYTES Pfr. ii, 9, 129.
Oxytropis Lwe. iv, 33; ix, 242

Pacata Aust. ii, 99.
Pacifica Pfr. iii, 78.
Paciniana Ph. iv, 204; ix, 330
Pachesta L. & B. . ix, 250
Pachnodes Bttg. iii, 198; ix, 266
Pachya Alb. . ix, 149

Pachya Bgt. iv, 248; . ix, 320
Pachychila E. A. Sm. viii, [265; ix, 104
Pachygastra Gray, v, 90; ix, 91
Pachyloma Mke. . ix, 68
Pachypleura Bgt. . ix, 320
PACHYSPHÆRA Pils. . ix, 226
Pachystoma Guild. . ix, 96
Pachystoma Homb. & Jacq. ii, 30.
PACHYSTYLA Mörch. ii, 5, 24.
Pachystyla Pfr. vi, 184; ix, 135
Pachystyloides Cox; . ix, 135
Pachytoichea West. . ix, 335
Padana Stab. iv, 90; . ix, 301
Paeteliana Sh. iv, 152; ix, 327
Pagodiformis Smith, viii, 86; [ix, 23

Pagodula Pfr. iii, 73; . ix, 6
Pagodula Semp. iii, 77; ix, 6
Paivana Lwe. . ix, 327
Paivana Morel. . ix, 328
Paivanopsis Mab. iv, 182; [ix, 328

Paivanus Pfr. i, 62.
Paladilhi Bgt. iv, 11; ix, 255
Paladilhiformis Fag. . ix, 257
Palaensis Semp. ii, 120.
Palawanensis Pfr. . ix, 228
Palawanica Pfr. . ix, 104
Paleata Rve. . ix, 136
Paleosa Streb. iii, 50; . ix, 57
Pallaresica Fag. . ix, 259
Pallasiana Pfr. ii, 131.
Pallasii Dubois, . ix, 322
Pallens Gred. viii, 82; ix, 47
Pallens Mlldff. . ix, 223
Pallens Morel. i, 183.
Pallens Pse. iii, 91; . ix, 6
Pallescens Mlldff. . ix, 342
Pallescens Shuttl. v, 114; [ix, 90

Palliata Say, iii, 147; . ix, 77
Pallida Hedl. & Muss. viii, [281; ix, 134

Pallida Jeffr. . ix, 266
Pallida Mouss. . ix, 272
Pallida Tayl. . ix, 307
Pallida Tryon, ii, 188.

- Pallidior C. & F. vi, 301; [ix, 156
 Pallidior Mouss. . ix, 47
 Pallidula Moq. . ix, 272
 Pallidula Pfr. iii, 186.
 Palmana Berth. . ix, 325
 Palmaria Bens. ii, 54.
 Palmarum Morel, ii, 52.
 Palmensis Braz. vi, 160; ix, 134
 Palmicola Stol. ii, 122.
 Paludicola Bens. iii, 104; ix, 37
 Paludosa DaCosta. . ix, 283
 Paludosa Pfr. iii, 129; ix, 73
 Palumba Souv.=sauliæ Pfr.
 [not Rve.! vi, 209; ix, 104
 Palumboi Caf. iii, 251.
 Pampelonensis Schm. iii, 246;
 [ix, 252
 Pamplonensis West.=pampelo-
 nensis.
 Panayensis Prod. ii, 44.
 Panayensis Semp. vii, 168;
 [ix, 224
 Pan Brod. vii, 149; . ix, 223
 Pan Pfr. . ix, 231
 Pancala S. & B. viii, 224; ix, 214
 Panchetensis G.-A. i, 182.
 Pancici Mlldff. iv, 88; . ix, 300
 PANDA Albers, . ix, 163
 Panda West. . ix, 272
 Pandoræ Fbs. iii, 228; . ix, 200
 Pandynama Mab. . ix, 206
 Panescorsi Béreng. . ix, 251
 Pansa Bens. ii, 97.
 Pantanellii Stef. . ix, 266
 Pantheia Mab. vi, 116; ix, 214
 Pantherina Hutt. viii, 65;
 [ix, 14
 Pantocratis Broem. . ix, 326
 Panurga Bgt. . ix, 251
 Papilio Lwe. iv, 45; . ix, 243
 Papilionacea Val. . ix, 108
 Papilla Müll. vi, 216; . ix, 108
 Papillata Pfr. iii, 249.
 Papillatus Pfr. i, 184.
 Papillifera Klika, . ix, 310
 Papilliformis Kob. iii, 217;
 [ix, 169
 Papillispira G.-A. i, 182.
 Papua Less. iii, 89; . ix, 5
 Papuensis Hedl. vii, 190;
 [ix, 229
 Papuensis Q. & G. . ix, 142
 PAPUINA Martens, . ix, 136
 PAPUSTYLA Pils. . ix, 229
 Papyracea Brod. vii, 117;
 [ix, 219
 Parableta Bttg. iv, 8; . ix, 255
 PARACHLORÆA Sandb. ix, 333
 Paradensis Pfr. ii, 185.
 Paradoxa Cox, . ix, 34
 Paradoxa Pfr. vii, 102; ix, 215
 Paradoxa Semp. . ix, 230
 Paradoxus Pfr. . ix, 231
 Paraguayana Pfr. ii, 175.
 Parahelix Iher. ix, xxv.
 Paraleuca Pils. vii, 142; ix, 222
 Parallela Poey, v, 51; ix, 180
 Paramattensis Cox, ii, 178.
 PARARHYTIDA Ancey, ix, 52
 Parasitarum Hde. . ix, 209
 Parasitica Hde. . ix, 209
 PARATROCHUS Pilsbry, ix, 31
 Parcipila Mart. ii, 75.
 Pardalina Dh. . ix, 27
 Paretiana Issel, iv, 130; ix, 322
 Paricincta Mart. viii, 217;
 [ix, 204
 Parietalis Mts. ii, 15.
 Parietidentata Mill. v, 147;
 [ix, 94
 Parilis Fér. v, 83; . ix, 91
 Parisiaca Mab. ii, 172.
 Parisotiana (B.) Péch. . ix, 326
 Parkeri Tryon. . ix, 199
 Parlatoris Biv. iii, 179; ix, 274
 Parma Hemph. . ix, 50
 Parma West. ii, 158.
 Parmula Brod. vi, 229; ix, 109
 Parnassia Roth, iv, 143; ix, 326
 Paropta Mab. vi, 55; . ix, 157
 Parraiana Orb. v, 50; . ix, 180
 Parreyssi Pfr. iii, 203; . ix, 266
 Parryi Pons. & Sks. . ix, 289
 Parsoni Cox, vi, 162; . ix, 134
 PARTHENA Albers, . ix, 98

- Parthenia* Hag. . . ix, 256
Parthenia Kob. . . ix, 343
Parthenopæa West. ii, 189.
Partita Pfr. ii, 95.
Partschii Bgt. . . ix, 325
Partuliformis Bttg. vi, 72;
 [ix, 153
Partuloides Brod. viii, 50;
 [ix, 231
Partunda Angas, . . ix, 337
Parumcincta Parr. . ix, 266
Parva Parr. iii, 232; . ix, 249
Parvidens Pse. iii, 64; . ix, 26
Parvissima Cox, iii, 261; ix, 34
Parvula Rang. iii, 32.
Parvula Sterki, viii, 254; ix, 283
Pascalina Caill. v, 186; ix, 167
Pascali Mab. . . ix, 274
Pascoeii Brazier, iii, 46; ix, 13
Pastorella Val. . . ix, 228
Pastorella West. . . ix, 256
Patanæ Bens. ii, 96.
Patasensis Pfr. iv, 81; . ix, 198
Patens Reinh. viii, 257; ix, 283
Patera Alb. . . ix, 69
Patescens Cox, ii, 123.
Pathetica Parr. iv, 248; ix, 320
Patina C. B. Ad. v, 102; ix, 89
Patricia Pfr. vi, 196; ix, 219
Patruelis Ad. . . ix, 169
Patruelis Ang. vi, 131; . ix, 130
Patula Dh. . . ix, 48
PATULA Held. . . ix, 48
Patula Hutt.=urnula Pfr.
Patularia Cless. . . ix, 46
PATULASTRA Pfeiffer, . ix, 44
PATULOPSIS Str. ii, 12, 188.
Patulopsis Suter, . . ix, 17
Patungana Gredl. viii, 158;
 [ix, 209
Paucicostata Pse. iii, 60; ix, 26
Paucilirata Morel. ii, 166.
Paucispira Poey, ii, 207.
Pauli Bgt. . . ix, 256
Paulus Morel. iii, 27; . ix, 38
Paupercula Lwe. iv, 35; ix, 244
Pauper Gld. iii, 20; . ix, 47
Pauxillula Bens. ii, 120.
Pauxillus Gld. ii, 123.
Pavelii, Haz. . . ix, 302
Pavida Mouss. iii, 223.
Paviei Morl. iii, 82; . ix, 4
Pazensis Poey, . . ix, 93
Pazi Bgt. ii, 147.
Pazii Ph. iii, 43; . . ix, 41
Peasiana Pfr. ii, 69.
Pechaudi B., Anc. . . ix, 288
Peculiaris A. Ad. . . ix, 169
Pedemontana Pini, . ix, 275
Pedestris Gld. . . ix, 76
Pediana Bgt. . . ix, 251
Pedianopsis Hagenm. . ix, 251
Pedina Bens. ii, 91.
PEDINOGYRA Albers, . ix, 158
Pegorarii Poll. . . ix, 275
Peguensis Bens. vi, 113; ix, 204
Peguensis Theob. i, 180.
Pekinensis Dh. viii, 205; ix, 206
Pelechystoma Tap.-Can. vii,
 [35; ix, 141
Pelewana Mouss. vii, 99; ix, 215
PELIA Alb. iii, 19, 102. (*Zoniti-*
 dæ).
Peliomphala Pfr. vi, 99; ix, 213
Peliosanthi Mörch, ii, 67.
Peliostoma Mart. ii, 51.
Pella Albers, . . ix, 37
Pella Auct. . . ix, 267
Pellicula Fér. v, 14; . ix, 187
Pelliculata Poey, . . ix, 187
Pellisboæ Hupé, v, 180; ix, 166
Pelliscolubri Ph. iv, 80; ix, 198
Pellislacerti Rv. . . ix, 327
Pellisserpentis Ch. v, 178; ix, 166
Pellisserpentis Hupé, . ix, 166
Pellita Fér. iv, 115; . ix, 277
Pellucens Sh. iii, 232; . ix, 249
Pellucida Gld. ii, 128.
Pellucida Penn. ii, 138.
Pelogosana Stoss. . . ix, 324
Pelopica Bgt. iv, 149.
Pemphigodes Pfr. v, 12; ix, 187
Penangensis Stol. iv, 63; ix, 116
Penchinati Bgt. iv, 16; ix, 253
Penicillata Gld. v, 33; ix, 187
Penicillata Poey, . . ix, 185

- Pennantiana* Pfr. vii, 36 ; ix, 141
Pennsylvanica Green, iii, [151 ; ix, 77
Penolensis Cox, ii, 179.
Pentodon Mke. = *Strophia*, q. v.
Peracanthoda Bgt. iii, 54 ; [ix, 281
Peracutissima C. B. Ad. v, [106 ; ix, 89
Peræruginosa Hde. . ix, 170
Peraffinis C. B. Ad. iii, 98 ; [ix, 57
Peraffinis Pils. vii, 139 ; ix, 222
Perakensis Cr. vii, 82 ; ix, 170
Perakensis Nev. ii, 61.
Perarcta Blanf. iii, 162 ; ix, 146
Perarmata Smith, . ix, 339
Percarinata Marts. ii, 51.
Percompressa Bens. iii, 84 ; [ix, 4
Percussa Hde. vi, 111 ; ix, 124
Percyana Smith, vi, 42 ; ix, 157
Perdepressa C. B. Ad. iii, [100 ; ix, 58
Perdepressa Pils. . ix, 223
Perdepressa West. . ix, 262
Perdita Desh. ii, 171.
Perdita Hutt. viii, 76 ; . ix, 18
Perdita Rve. . ix, 229
Peregra Parr. . ix, 267
Peregrina Arad. & Mag. ii, 159
Perelevata Pils. . ix, 182
Pererosa Woll. . ix, 242
Perfecta Bgt. . ix, 302
Perforata Dh. ii, 123.
Perforata West., . ix, 304
PERFORATELLA Schlüter, [ix, 277
Perfucata Bens. ii, 124.
Pergranulatus Godet, ii, 136.
Perigrapta Pils. . ix, 77
Perinflata Pfr. viii, 282 ; ix, 131
Peritricha Bttg. viii, 230 ; [ix, 303
Peritropis Pils. v, 140 ; ix, 94
Perlevis Sh. iii, 181 ; ix, 274
Perlineata Mouss. . ix, 304
Perlucida H. Ad. ii, 107.
Perlucida Iss. ii, 117.
Perlutosa Hag. . ix, 257
Permellita Hde. . ix, 210
Permodesta Streb. ii, 165.
Permollis Stol. i, 177.
Pernobilis Fér. ii, 33.
Peroni Brazier, . ix, 33
Perpaula Bens. ii, 89.
Perplanata Pils. viii, 181 ; [ix, 260
Perplanata Nev. iv, 57 ; ix, 209
Perplexa Fér. v, 89 ; . ix, 91
Perplicata Bens. iii, 106 ; ix, 38
Perpolita Mouss. ii, 113.
Perraudierei Grass. iv, 176 ; [ix, 327
Perrieri Mab. iv, 160 ; ix, 327
Perroquiniana Cr. ii, 167 ; [ix, 54
Perrotteti Pfr. ii, 94.
Perroudiana Loc. iv, 8 ; ix, 255
Perruginea Mke. . ix, 336
Perryi Jay, vi, 108 ; . ix, 214
Persculpta Sm. . ix, 340
Persiani Tib. iv, 220 ; ix, 332
Persica Bttg. iv, 85 ; . ix, 304
Persica Rosen. . ix, 283
Persimilis Dh. . ix, 224
Persimilis Shutt. iv, 19 ; ix, 258
Personata Drap. iii, 147 ; ix, 309
Persordida Let. & Bgt. iii, 185.
Perspectiva Blanc. ii, 158.
Perspectiva Fér. . ix, 47
Perspectiva Mühl. . ix, 47
Perspectiva Say, iii, 20 ; ix, 48
Perspectiva Sterki, viii, [257 ; ix, 284
Perspectiva Wagn. i, 61.
Pertenuis Gld. ii, 116.
Peruviana Lam. . ix, 165
Pervia Muhlf. . ix, 302
Petasia Beck, ii, 11 ; . ix, 278
Petasina Mörch. . ix, 277
Petasus Bens. ii, 109.
Petasussinensis Hde. ii, 218.
Petholata Oliv. . ix, 336
Petitiana Orb. v, 60 ; . ix, 97
Petræa Anc. iii, 238.

- Petricola* Paul. ii, 142.
Petrobia Bens. iii, 107; ix, 38
Petronella Charp. ii, 154.
Petrophila Bld. ii, 162.
Petrosa Hutt. ii, 91.
Petterdiana Taylor, . ix, 34
Petterdi Brazier, . ix, 33
Petterdi Cox, . ix, 13
Pettos v. Mart. iii, 156; ix, 146
Peucetana Kob. iv, 122; ix, 332
Pexa Cox, iii, 25; . ix, 34
PFEIFFERIA Gray, . ix, 221
Pfeifferianus Rve. . ix, 228
Pfeifferi Phil. ii, 77.
Pfeifferi Semp. vii, 162; ix, 224
PHACUSSA Hutton, . ix, 12
Phædra Alb. . ix, 183
Phædra Pfr. v, 23; . ix, 186
Phæogramma Anc. . ix, 213
Phæogramma Pfr. v, 42; [ix, 183
Phæolemma Bttg. iv, 87; ix, 304
Phæostoma Mart. vii, 47; [ix, 140
Phæostyla Pfr. viii, 41; ix, 230
Phæozona Mts. iii, 205; ix, 204
Phæozona Mts. iii, 205; ix, 266
Phalerata W. & B. iv, 19; [ix, 258
Phalerata Zgl. iv, 100; ix, 302
Phania Alb. . ix, 154
Phari Fagot, iii, 241; . ix, 255
PHASIS Albers, . ix, 36
Phayrei Theob. iv. 55; ix, 210
PHENACHAROPA Pilsbry, [ix, 29
Phenacohelicidae Sut. ix, xxxi.
PHENACOHELIX Suter, . ix, 16
Phenax Pils. vi, 69; . ix, 153
PHENGUS Alb. . ix, 230
Philammia Bgt. viii, 185; [ix, 261
Philesia West, . ix, 259
Philibinensis Friv., Rm. iv, [249; ix, 320
Philibensis Pfr. . ix, 320
Philidora Morg. . ix, 115
Philina Alb. . ix, 107
Philippinensis Pfr. vii, 201; [ix, 227
Philippinensis Semp. vi, 123; [ix, 214
Philippinensis Semp. viii, 82; [ix, 27
Philippinicum Mlldff. ix, 52
Philippi Testa, ii, 147.
Phillipsiana Ang. iv, 66; ix, 114
Philomela Ang. vii, 8; ix, 140
Philomiphila Mab. . ix, 256
Philora Bgt. . ix, 256
Philoxera Caf. . ix, 251
Philyrina Morel. ii, 27.
Phlebophora Lwe. . ix, 293
Phlogophora Pfr. . ix, 18
Phloiodes Pfr. vii, 163; ix, 224
Phlyaria Mab. viii, 158; ix, 146
Phocæa Roth. iv, 103; . ix, 301
Phoebeia Let. & Bgt. . ix, 251
PHENICOBIVS Mörch. . ix, 104
Phoenix Pfr. vi, 80; . ix, 154
Phonica Mab. vii, 83; . ix, 170
Phorochætia Bgt. . ix, 275
Phragmitum Hde. iv, 48; ix, 204
PHRIXGNATHUS Hutton, ix, 9
Phryganophila Mab. . ix, 258
Phryne Pfr. . ix, 112
Phrynia Hutt. viii, 61; ix, 9
Phthiota West. . ix, 256
Phthisica Pfr. . ix, 140
Phulongensis G.-Aust. ii, 53.
Phyllophaga Hde, iii, 221; [ix, 170
Phyllophila A. Ad. ii, 178.
Phyllophila Bens. ii, 59.
Physalis Pfr. vii, 115; . ix, 221
Physeta Anc. iv, 50; . ix, 204
Phytostylus Bens. ii, 176; viii, 135.
Piatigorskiensis Bayer, . ix, 259
Picæna Tib. iv, 109; . ix, 331
Picea Grt. . ix, 25
Picea Zgl. iv, 117; . ix, 306
Piceata Gredl. iv, 237; ix, 319
Picena (Tib.) Kob. . ix, 266
Picta Born. v, 53; . ix, 189
Picta Hemph. viii, 118; ix, 50

- Picta* Sm. vii, 112; . ix, 220
Pictella Beck, . ix, 187
Pictilis Tate, . ix, 10
Pictionica Bgt. ii, 156.
Pictionum Bgt. . ix, 256
Pictor Brod. viii, 8; . ix, 228
Pictoria Perry, . ix, 189
Picturata Poey, . ix, 185
Picturata C. B. Ad. v, 113; [ix, 90
Piestius Bgt. . ix, 234
Pietruskyana Parr. iii, 176; [ix, 275
Pila C. B. Ad. iii, 8; . ix, 64
Pilatica Bgt. ii, 156.
Pileata Gmel. . ix, 141
Pileiformis Moric. v, 131; [ix, 190
Pileolus Fér. vii, 29; . ix, 141
Pileolus Lesson, . ix, 137
Pileus Müll. vii 24; . ix, 141
Pilidion Bens. vi, 114; ix, 204
Pilifera Jick. . ix, 268
Pilifera Mart. iii, 190; ix, 268
Piligera Andr. . ix, 267
Piligera Bl. & W. . ix, 288
Pilisparsa Mart. viii, 192; [ix, 116
Pilosa Alten. . ix, 275
Pilosa Kob. iv, 112; . ix, 305
Pilosa Mart. . ix, 119
Pilosa Stentz. iv, 97.
Pilsbrya Anc. . ix, 193
Pilsbryi Suter, . ix, 339
Pilula Mouss. . ix, 249
Pilula Rve. ii, 212; . ix, 16
Pimesoma Pils. v, 95; . ix, 180
Pinacis Bens. iii, 159; . ix, 146
Pinchoniana Hde. . ix, 211
Pindica Bttg. iv, 96; . ix, 303
Pinguis Anc. . ix, 171
Pinguis Krauss, iii, 103.
Piniana Poll. ii, 220.
Pinicola Pfr. i, 121; . ix, 33
Pinii Adami, iv, 106; . ix, 301
Pinii Ad. iii, 51; . ix, 44
Pinii West. . ix, 256
Pinnocki Liardet, ii, 180.
Pipaensis Petterd, . ix, 338
Pirajnea Ben. iii, 192; ix, 272
Piratarum Kob. iii, 240; ix, 249
Pirongiaensis Sut. . ix, 9
Pirrieana Pfr. iii, 68.
Pisana Müll. iii, 224; . ix, 336
Pisanella Serv. . ix, 336
Pisaniformis Bgt. iii, 227; [ix, 337
Pisanoides Orb. . ix, 337
Pisanopsis Serv. iii, 225; ix, 336
Pisanorum Bgt. . ix, 257
Pisiformis Pfr. iii, 197; ix, 266
Pisolina Gld. iii, 108.
Pisum Beck, . ix, 68
Pithogastra Fér. vii, 200; [ix, 227
Pithohelix Swains, . ix, 227
Pittæ Pva. iv, 44; . ix, 243
Pittorrii Dup. . ix, 288
Pityonesica Pfr. v, 49; ix, 180
Pitys Beck, . ix, 22
Pitys Pease, . ix, 26
Placentula Lowe, . ix, 243.
Placentula Shuttlew. ii, 163.
Placita G.-Aust. ii, 57.
Plagiata Beck, . ix, 41
Plagiocheila T.-C. vi, 295; [ix, 113
Plagioglossa Pfr. iii, 133; ix, 74
PLAGIOPTYCHA Pfr. . ix, 185
Plagiptycha Shutt. ii, 174; [ix, 57, 58
Plagiostoma Pfr. vii, 19; ix, 140
Plana Dkr. . ix, 73
Plana Mil. . ix, 274
Planaria Cless. ii, 153.
Planaria Mouss. iii, 122; ix, 289
Planasi Hid. viii, 202; ix, 170
Planata Chemn. iii, 226; ix, 337
Planata Hde. ii, 123.
Planata Lwe. iv, 191; . ix, 293
Planatella Cless. . ix, 251
Planella Pfr. ii, 151.
Planibasis Cox, . ix, 134
Planilabris Cox, i, 171.
Planior Pils. v, 188; . ix, 167
PLANISPIRA Beck, ix, 110, 111

- Planissima* Pfr. iii, 93; ix, 6
Planiuscula Hutt. ii, 95.
Planoconus Mouss. viii, 132;
 [ix, 6
PLANOGYRA Morse, . ix, 45
Planorbella Lam. iv, 180;
 [ix, 328
Planorbis Jay, . ix, 167
Planorbis Less. iii, 82; ix, 5
Planorboidea Deb. ii, 196.
Planorboides Fér. ii, 206.
Planorboides Nev. ii, 159.
Planorbula Gray, . ix, 327
Planorbula Lam. . ix, 73
Planospira Bens. i, 183.
Planospira Grt. iii, 41; ix, 35
Planospira Lam. iv, 89; ix, 301
Planospira Payr. . ix, 305
Planospirus Pfr. i, 171.
Planti Pfr. viii, 142; . ix, 38
Planula Hde. ii, 120.
Planulata Ant. ii, 114.
Planulata Hutt. viii, 67; ix, 15
Planulata Lam. vi, 220; ix, 108
Planulatus Beck, i, 62.
Planulatus Pfr. i, 184.
Platonis Pfr. v, 16; . ix, 186
Plattenica Serv. . ix, 255
Platti Pfr. . ix, 38
Platycheila Mke. iv, 209;
 [ix, 330
Platycheloides Kob. iv, 211;
 [ix, 330
Platyclamys Blanf. ii, 91.
Platycloster Hass. ii, 8.
Platygyra Alb. . ix, 83
Platylasia Bgt. . ix, 274
Platyodon Pfr. vi, 239; ix, 106
Platyomphala Möll. iv, 61;
 [ix, 210
PLATYPETASUS Pilsbry, ix, 207
PLATYRHYTIDA Ckll. . ix, 342
Platysoma Pils. . ix, 198
Platystoma Anc. . ix, 52
Platystyla Pfr. v, 39; . ix, 183
PLATYTHEBA Pils. . ix, 268
Platyzona Mlldff. . ix, 108
Plebeia Drap. iii, 174; ix, 274
PLEBECULA Lowe, . ix, 239
Plebeja ii, 24.
Plebicola Loc. . ix, 274
Plebicula=*Plebecula*.
Plecteulota Mlldff. . ix, 121
Plectilis Bens. vi, 188; ix, 136
PLECTOPYLIS Bens. . ix, 143
Plectostoma Bens. iii, 160;
 [ix, 146
Plectotropis Mts. iv, 58; ix, 207
PLECTOTROPIS Martens, ix, 208
Plena G.-A. viii, 276; . ix, 124
Plesiasteia Bgt. . ix, 324
Plethorica Crse. vi, 138;
 iii, 221; ix, 131
Pleurabdota Bgt. . ix, 257
Pleurestha Tassy, . ix, 256
Pleurischura Bgt. . ix, 259
Pleurodonta Beck, . ix, 88
PLEURODONTA Fischer, ix, 87
Pleurophora Moric. iii, 53;
 [ix, 41
Pleuroxia Anc. . ix, 113
Plexus Cox, iii, 262, 46; ix, 13
Plicaria Lam. iv, 151; ix, 327
Plicata Born. v, 163; . ix, 95
Plicata Say, . ix, 73
Plicatilis Dh. ii, 103; . ix, 205
Plicatula Blanf. ii, 98.
Plicatula Lam. . ix, 327
Plicatula Mart. ii, 50.
Plicatulus Mart. i, 184.
Plicifera Blanf. ii, 98.
Plicosa Mts. . ix, 204
Plicostoma Schlüt. ix, 284, 308
Plicostriata Mouss. ii, 170.
Pliculosa Pfr. iii, 216; . ix, 130
Pluricincta Mart. . ix, 112
Pluridentata Poll. iii, 116;
 [ix, 287
Plurizonata A. & R. vii,
 [183; ix, 344
Plutonia Lwe. iv, 181; ix, 328
Pluto Pfr. ii, 37.
Podolica Cless. ii, 141.
Pœcilocostata Pfr. . ix, 9
Pœciliosticta Pfr. iii, 68; ix, 9
Pœcilstola Anc. . ix, 193

- Pæcilostylus* Pilsbry, ix, 158
Poecilotrochus Mlldff. . ix, 170
Pæcihozonites Bttg. iii, 19,
 [viii, 55, 134; ix, 65
Pæcilus Alb. . . ix, 225
Poeyi Petit, iv, 83; . ix, 181
Pointhameli Mts.=feisthameli
 Hupé.
Poiretia M.-T. . . ix, 307
Poiretiana Pfr. vii, 27; ix, 141
Poirieri Tap.-Can. vii, 27;
 [ix, 141
Polillensis Pfr. vii, 138; ix, 222
POLITA Held. ii, 10, 145.
Polita Paul. iv, 219; . ix, 331
Politissima Pfr. ii, 93.
Politissimus Beck, i, 173.
Pollenzensis Hid. iii, 257; ix, 260
Pollinensis Paul. viii, 252;
 [ix, 283
Pollinii DaC. iv, 245; . ix, 319
Pollodonta d'Orb. iii, 126;
 [ix, 82
Pollux Theob. ii, 129.
Polychroa Binn. . . ix, 184
Polychroa Sowb. . . ix, 225
Polycycla Morel. iii, 125;
 [ix, 83
POLYDONTES Montf. ix, 87, 97
Polydora Mab. vi, 50; . ix, 156
Polygyra Mlldff. ii, 68.
Polygyra Poll. ii, 220.
POLYGYRA Say, . . ix, 68
Polygyrata "Binn." Pfr. ix, 73
Polygyrata Born. iii, 124;
 [ix, 82
POLYGYRATIA Gray, ix, 82, 342.
POLYGYRELLA Binney, ix, 78
Polygyrella Bld. & Coop. iii,
 [129; ix, 80
POLYGYRINÆ, . . ix, xxxii
POLYMITA Beck, . . ix, 187
Polymorpha Lwe. iv, 44; ix, 243
POLYPLACOGNATHA, ix, xxix
Polypleuris Blanf. iii, 52.
Polyodon Sowb. iii, 62; viii,
 [93; ix, 28
Polyodon Weinl. & Mart. ii,
 [201; ix, 65
Polyptychia Mlldff. . ix, 146
Polytenia Mart. . . ix, 183
Polyteniata Pils. v, 30; ix, 184
Polytrichia Anc. . . ix, 257
Polyzonalis Beck, . . ix, 153
Polyzona Mlldff. vi, 207; ix, 104
Pomacea Perry, . . ix, 316
Pomacella Parr. iv, 247; ix, 320
Pomaria Müll, . . ix, 319
Pomatella Tib. iv, 243; ix, 319
Pomatia Leach, . . ix, 316
Pomatia L. iv, 236; . ix, 319
Pomeliana Bgt. ii, 157.
Pomiformis Braun, . . ix, 310
Pompeiana Bgt. . . ix, 250
Pompylia Shuttlew.. ii, 204.
Pomumadami Green, ii, 198.
Pomum Pfr. vi, 178; . ix, 135
Ponderosa Pfr. vii, 147; ix, 222
Pondicherriensis Pfr. ii, 76.
Ponentina Dup. . . ix, 274
Ponsii Hid. iii, 257; . ix, 260
Ponsonbyana Pils. viii, 190;
 [ix, 274
Ponsonbyi Ang. . . ix, 164
Ponsonbyi G. A. . . ix, 145
Ponsonbyi Kob. viii, 183;
 [ix, 260
Ponsonbyi West. not Kob.
 [ix, 274
Pontica Bttg. ii, 193.
Pontica Bttg. iv, 86; . ix, 304
Poongee Theob. ii, 98.
Porcaria Mab. vi, 45; . ix, 157
Porcellana Grat. vi, 283; ix, 112
Porcina Say, . . ix, 78
Pornæ Serv. iii, 31; . ix, 45
Poromphala Lwe. iv, 44; ix, 243
Porphyria Pfr. ii, 32.
Porphyrostoma M. & P. viii,
 [262; ix, 173
Porracea Jay, . . ix, 231
Porrecta Q. & M. . ix, 280
Porroi Paul. ii, 190.
Portei Pfr. . . ix, 222

- Portei Pfr. vii, 206; . ix, 227
 Porteri Cox, vi, 263; . ix, 122
Portia Gray, ii, 213; . ix, 13
 Porti Braz. ii, 181.
Portii Pfr. . ix, 227
 Portoricensis Pfr. iii, 96; ix, 58
 Portosanctana Sowb. iv, 199; [ix, 293
 Portosancti Woll. . ix, 293
 Posidoniensis Tib. iv, 219; [ix, 331
Positura Cox, iii, 262; . ix, 13
 Postelliana Bld. iii, 137; ix, 73
Potua Chier. . ix, 283
 Pouchet Fér. iv, 167; . ix, 327
 Poupillieri Bgt. iii, 29; ix, 45
 Pouzolzi Desh. iv, 87; . ix, 300
Pouzolzi Payr. nom. nud!!
Pouzonensis Fag. . ix, 255
 Poweri H. Ad. ii, 107.
 Præcellens Mts. i, 179.
 Præclara Caf. iii, 252; . ix, 260
 Prædisposita Mouss. iv, 145; [ix, 325
 Præposita Mouss. . ix, 258
 Prærupta West. . ix, 272
 Præstans Bl. & W. . ix, 319
 Præstans Gld. i, 179.
 Præstans Pfr. v, 184; . ix, 167
Prætexta Jan. . ix, 330
 Prætexta Mart. ii, 73.
 Prætexta Parr. iv, 99; ix, 301
 Prætermisssi Cox, vi, 167; ix, 134
Prætextata Kob. . ix, 301
 Prætumida Fér. ii, 106.
 Prætutia Tib., iv, 243; . ix, 319
 Prævalens Anc. iii, 238.
Prasina Koch. . ix, 215
 Prasinata Roth. iv, 252; ix, 320
 Pratensis Pfr. iv, 85; . ix, 304
Praticola Strebel. . ix, 67
 PRATICOLELLA Mart. . ix, 67
Preauxii Hartm. . ix, 261
 Preslii Schm., iv, 104; . ix, 302
 Pressa Mouss., iii, 14; . ix, 234
 Pressula Morel. iii, 50; . ix, 199
Pretiosa Alb. . ix, 209
Pretiosa C. B. Ad. v, 100; [ix, 89
 Prevostiana Cr. i, 123; . ix, 20
Prevostiana Risso. . ix, 274
 Prietoi Hid. iii, 257; . ix, 260
 Primæva Morel. iv, 195; ix, 294
 Princei Liard. iii, 27; . ix, 35
 Princeps Rve. vii, 137; . ix, 222
 Pringi Pfr. iv, 32; . ix, 264
 Prinohila Mab. . ix, 251
 Prionacis Bens. viii, 137; ix, 38
 PRISTILOMA Anc. viii, 111.
Pristina Anc. iii, 102.
 Privata Gall. . ix, 251
 Proba A. Ad. iii, 185.
 Problematica Pfr. i, 66.
 Proboscidea Pfr. v, 66; ix, 97
Procera Pfr. . ix, 94
 PROCHILUS Alb. . ix, 231
 Proclivis Mts. viii, 187; ix, 272
Proctostoma Mab. . ix, 289
Procumbens Gld. . ix, 116
Prodigium Bens. . ix, 146
 Præclara C. & F., vi, 300; [ix, 156
 Profuga Schm. iv, 7; . ix, 255
 Profunda Say, iii, 155; . ix, 76
 Proles Hemph. . ix, 199
 Proletaria Morel. ii, 106.
 Promæca Bgt. . ix, 319
 Promethus Bttg. iii, 199; ix, 268
 Prominula Pfr. . ix, 58
 Prona Nev. ii, 102.
 Pronoe Serv. iii, 31.
Pronuba West. . ix, 320
 Propenuda Ad. v, 115; . ix, 90
 Prophetarum Bgt. iii, 12; ix, 234
 Propinqua Hutt. viii, 72; ix, 13
 Propinqua Pfr. iv, 63; . ix, 124
 Propria Gall. . ix, 257
 PROSERPINULA Alb. ii, 12, 201.
Proserpinula Pfr. ii, 201.
 Prosperus Alb. vi, 80; . ix, 154
 Prostrata Pse. . ix, 36
 Protea Ziegl. iv, 5; . ix, 255
 Protensa Fér. ii, 194.
Protensa Parr. ii, 194.

- PROTOGONA, . . . ix, xxxii
 Provincialis Ben. iv, 208; ix, 330
 Provisoria Pfr. v, 63; . ix, 97
 Proxima Fér. iv, 63; . ix, 116
 Proxima Grt. iii, 39; . ix, 35
 Prudhoensis Smith, . ix, 343
 Pruinosa Pfr. iii, 186; . ix, 58
Prunum Auct. . . ix, 122
 Przewalskii Mts. viii, 209;
 [ix, 206
Psadara Mill. . . ix, 166
Psamitus Bgt. . . ix, 335
Psammæcella Let. & Bgt.
 [ix, 264
Psammæcia Bgt. . . ix, 264
Psammathæa Let. & Bgt. ix, 251
Psammita (B.) West, . ix, 248
Psammoica Morel, . ix, 264
Psammophora Lwe. iv, 191;
 [ix, 293
Psara Bgt. . . ix, 254
Psaropsis Loc. . . ix, 254
Psathyra Lwe. iv, 183; . ix, 328
Psatura Bgt. ii, 155.
Psaturochæta Bgt. iii, 182;
 [ix, 274
Pseudenthalia Bgt. . ix, 249
 PSEUDIBERUS Ancey, . ix, 207
 PSEUDOBBA Mlldff. . ix, 105
Pseudobuliminus Gredl. ix, 171
Pseudobuliminus Hde. iv,
 [31; ix, 171
Pseudocampylæa Hesse, ix, 276
 PSEUDOCAMPYLÆA Pfr. ix, 293
Pseudochinensis Möll. iv, 60;
 [ix, 210
Pseudocoma Sut. . . ix, 33
Pseudocorasia Strub. viii,
 [293; ix, 125
Pseudodiaphana Cout. ii, 143.
Pseudoembia Bgt. iv, 141;
 [ix, 325
Pseudoglobula Mss. iii, 197;
 [ix, 266
Pseudohydatina Bgt. ii, 144.
 PSEUDOHYALINA Mse. ii, 13, 201.
Pseudolabium Pfr. vii, 38;
 [ix, 142
Pseudoleioda Sut. viii, 88;
 [ix, 28
 PSEUDOLEPTAXIS Pils. . ix, 294
Pseudomeadei Braz. . ix, 135
Pseudoparilis Grat. . ix, 91
Pseudoparnassia Mouss. ix, 325
Pseudophis W. Blanf. iii,
 [162; ix, 146
Pseudoplanorbis Lub. iii,
 [126; ix, 83
Pseudoplanorbis Mouss. iii,
 [91; ix, 6
Pseudopomatia Bl. iv, 244;
 [ix, 319
Pseudoprunum Pils. viii,
 [271; ix, 122
Pseudosericea Ben. iii, 196;
 [ix, 272
Pseudosericina Mlldff. . ix, 337
Pseudovitrinoides Nev. ii, 90.
Pseudoxerophila West, . ix, 251
Pseustes Sm. viii, 92; . ix, 28
Psiloritana Malz. viii, 162;
 [ix, 255
Psittacina Dh. vii, 118; ix, 219
Psyche Ang. vii, 110; . ix, 220
Psyra Hutt. . . ix, 14
Pterididea Zgl. iii, 174.
 PTERODISCUS Pilsbry, . ix, 36
Pterolake Kob. . . ix, 301
Pterotropis, error for PTERO-
 [DISCUS, ix, 31
Pthonera Mab. iii, 123; ix, 289
Ptychodes Pfr. iii, 100; ix, 58
Ptychodia Bgt. viii, 184; ix, 261
 PTYCHODON Ancey, . ix, 27
Ptychomphala Pfr. i, 123.
Ptychopatula Pils, . ix, 54
Ptychophora A. D. Br. iii,
 [154; ix, 76
Ptychoraphe W. & M. ii, 197.
Ptychostyla Mart. iv, 58; ix, 171
Ptychostyla Pfr. . . ix, 171
Ptychostylus Mlldff. . ix, 226
Ptycodia Monts. . . ix, 261
Ptylota Bgt. iii, 181; . ix, 274
Puberosula Hde. iv, 56; ix, 211
Puberula Hde. iii, 183; . ix, 275

- Pubescens* Pfr. iii, 184; . ix, 58
Pubescens Tib. iv, 91; . ix, 301
Pubicepa Mart. vii, 90; . ix, 125
Pudibunda Beck, . ix, 182
Pudibunda Cox, ii, 214.
Pudibunda Semp. vii, 171; [ix, 221
Pudica G.-A. vii, 195; . ix, 209
Pudica Pfr. vii, 69; . ix, 143
Pudiosa Paul, iv, 217; . ix, 331
Pudiosa Zgl. ii, 150.
Puella Brod. vii, 120; . ix, 220
Puellula Bens. . ix, 170
Puerocunæ Peron. ii, 24.
Pugnax West, . ix, 256
Pulchella Beck, . ix, 187
Pulchella Ckll. . ix, 342
Pulchella Mldff. . ix, 225
Pulchella Müll. viii, 248; [ix, 283
Pulchella Rm. . ix, 325
Pulchellula Hde. . ix, 283
Pulcherrima Hartm. viii, 134.
Pulcherrima Sowb. vii, 133; [ix, 222
Pulchra Paiva. . ix, 240
Pulchra Pils. vii, 143; . ix, 222
Pulchrior Ad. v, 41; . ix, 183
Pulchrior Pils. . ix, 231
Pullula Parr. . ix, 252
Pulskyana Haz. iv, 237; ix, 319
Pulveratricula Mts. viii, 211; [ix, 206
Pulveratrix Mts. viii, 211; [ix, 206
Pulverella Mts. . ix, 206
Pulverulenta Hde. . ix, 211
Pulverulenta Lwe. iv, 43; ix, 260
Pulvinaris Gld. iii, 157; ix, 146
Pulvinata Lwe, iv, 45; . ix, 243
Pulvisculum Iss. iii, 191; ix, 52
Pumicata Morel. ii, 89.
Pumila Hutt. viii, 63; . ix, 9
Pumilio Pfr. iv, 27; . ix, 261
Punctata Born, not Müll. ix, 91
Punctata Müll. iv, 131; . ix, 324
Punctata Wagn. . ix, 167
Punctatissima Jen. . ix, 324
Punctella M.-T. . ix, 336
Punctidæ Gill. . ix, xxxi
Punctifera Grt. ii, 113.
Punctifera Lm. . ix, 97
Punctiperforata Grt. iii, 66; [ix, 26
Punctulata Sowb. iv, 187; [ix, 239
Punctum Morel. iii, 53; . ix, 57
PUNCTUM Morse, . ix, 6
Punica Morel. iv, 129; . ix, 324
Pupilla Serv. . ix, 263
PUPISOMA Stol. . ix, 52
Pupula Gld. ii, 178.
Pura Alder ii, 152.
Pura West, . ix, 322
Purchasi Pfr. vii, 108; . ix, 220
Purpuragula Lea, . ix, 182
Purpurascens Mts. . ix, 222
Purpurascens Pfr. viii, 297; [ix, 214
Purpurostoma LeGuill. vi, [177; ix, 113
Pusilla Lwe. iii, 31: . ix, 45
Pusilla Pfr. ii, 174.
Pusillus Gld. ii, 123.
Pusiodon Swains, . ix, 107, 110
Pusio King, iii, 47; . ix, 41
Pustula Fér. iii, 131; . ix, 73
Pustulata Mühl. . ix, 255
Pustulina Reinh. ii, 178.
Pustuloides Bld. iii, 132; ix, 73
Pustulosa Parr. . ix, 249
Puteolus Bens. . ix, 146
Putoniana Mab. iii, 194; ix, 266
Putoni Cless. . ix, 274
Putrescens Lwe. iii, 31; ix, 47
Pycnia Bgt. iv, 253; . ix, 320
Pycnochilia Bgt. . ix, 324
PYCNOGYRA Streb. ii, 13, 204.
Pygmæa Bttg. ii, 139.
Pygmæa Bttg. . ix, 304
Pygmæum Drap. iii, 29; ix, 8
Pygmæum Spix, i, 64.
Pylaica Bens. ii, 132.
Pyramidalis Jeffr. . ix, 47
Pyramidalis Sowb. viii, 28; [ix, 229

- Pyramidata* Drp. iv, 23; ix, 263
Pyramidata Mart. . ix, 141
Pyramidatoides Orb. ix, 58, 263
Pyramidea Mart. ii, 50.
Pyramidella Jan. . ix, 263
Pyramidella Spix, Wagner,
 [ix, 190
PYRAMIDULA Fitz. . ix, 42
Pyramis Hde. ii, 218.
Pyramis Phil. iv, 30; . ix, 262
Pyrenaica Dr. iv, 94; . ix, 302
Pyrenaica Rossm. . ix, 325
Pyrenaica Sterki, . ix, 283
Pyrgia Bgt. . ix, 319
PYROCHILUS Pilsbry, . ix, 154
Pyrostoma Fér. vi, 194; ix, 155
PYRRHA Hutton, . ix, 15
Pyrrhizona Ph. viii, 204; ix, 206
Pythohelix Swains, . ix, 227
Pythonissa Tap.-Can., vii, 31;
 [ix, 141
Pyxis Hinds, vii, 80; . ix, 143

Quadrasi Hid. iii, 116; . ix, 288
Quadrasi Hid. viii, 122; ix, 4
Quadrasi Hid. viii, 34; . ix, 230
Quadrasi Mlldff. . ix, 340
Quadrasi Mlldff. . ix, 344
Quadrata Fér. iii, 47; . ix, 41
Quadricincta Morel. iv, 182;
 [ix, 328
Quadridentata Brod. v, 168;
 [ix, 95
Quadridentata Mke. . ix, 89
Quadrifasciata LeGuill. vi,
 [280; ix, 111
Quadriskira Mart. iii, 33.
Quadrivittata Hid. v, 190;
 [ix, 166
Quadrivolvus Mart. vi, 299;
 [ix, 113
Quærita Dh. vi, 108; . ix, 214
Quæstiosa Cox, iii, 261.
Quaternarius Hde. . ix, 171
Quedenfeldti Mart. viii, 235;
 [ix, 330
Quercina Pfr. vi, 257; . ix, 121
Quieta Rve. vi, 271; . ix, 124

Quimperiana Fér. iv, 116;
 [ix, 308
Quinaria Pfr. vi, 269; . ix, 124
Quincayensis Bgt. . ix, 318
Quincianensis Mauduyt, ix, 318
Quinquedentata F. & C. ix, 74
Quinquelirata Sm. viii, 150;
 [ix, 82
Quintali Cox, ii, 212.
Quirosi Cox, vii, 80; . ix, 143
Quisquiliæ Paul, viii, 164;
 [ix, 255
Quitensis Pfr. ii, 175.
Quoyi Desh. vi, 213; . ix, 105

Rachgonica Bgt. . ix, 251
Rachiodia Bgt. iii, 194; ix, 266
Radama Less. vi, 38; . ix, 157
Raddei Bttg. ii, 181.
Raddei Bttg. iv, 251; . ix, 320
Radesiana Marès, . ix, 336
Radians Pfr. ii, 115.
Radiaria Pfr. ii, 213; . ix, 339
Radiata DaC. . ix, 47
Radiata Mlldff. . ix, 342
Radiata Ulic. iv, 238; . ix, 319
Radiata West, . ix, 266
Radiatella Reinh. ii, 171.
Radiatula Alder, ii, 152.
Radicalis Mouss. ii, 210; ix, 35
Radicicola Bens. iii, 210; ix, 205
Radiella Pfr. iii, 38; . ix, 26
Radiolata Andr. . ix, 254
Radiolata Jan. . ix, 254
Radiolata Morel. iii, 184.
Radiolata Mss. iii, 240; ix, 249
Radiolata Mts. ii, 51.
Radosa Ziegl. iv, 241; ix, 319
Radula Pfr. . ix, 337
Radula Sandb. . ix, 295
Radulella Hde. iv, 57; ix, 210
Radulina Hde. . ix, 170
Raffrayana Ckll. . ix, 281
Raffrayi Bgt. i, 184.
Raffrayi Bgt. ii, 60.
Raffrayi Bgt. . ix, 281
Raffrayi Tap.-Can. iii, 128;
 [ix, 84

- Rafinesquea* Fér. ii, 196.
Ragusæ Kob. iv, 208; . ix, 330
Ragusana Fér. . . ix, 300
Rahtii Braun. . . ix, 310
Raimondii Phil. v, 172; ix, 95
Rainbirdi Cox, vi, 157; ix, 133
Ramburiana Mab. & LeM. ii, 121
Ramburi Mab. iv, 6; . ix, 254
Ramentosa Gld. iv, 73; ix, 199
Ramisi Bgt. . . ix, 326
Ramlensis Bgt. . . ix, 251
Ramondi d'Orb. . . ix, 73
Ramonis d'Orb. . . ix, 73
Ramsayi Cox, iii, 109. viii, 147.
Ramsayi Liard. ii, 121.
Ramsdeni Ang. . . ix, 140
Ramsgatensis Cox, iii, 265; [ix, 34
Rangelina Pfr. v, 66; . ix, 97
Rangiana Fér. iii, 121; ix, 288
Rangii Auct. . . ix, 288
Rangii Less. vii, 53; . ix, 142
Ranzani Orsini, . . ix, 271
Rapa Müll. ii, 72.
Rapida Pfr. i 129.
Raratongensis Pse. iii, 64; [ix, 27
Rareguttata Mouss. ii, 69.
Raricostata Sut. viii, 100; ix, 9
Raripila Morel. iii, 101; ix, 58
Rariplicata Bens. iii, 107; [ix, 38
Raspailii Payr. iv, 112; ix, 305
Raterana Serv. ii, 220.
Rathouisii Hde. ii, 104.
Ravergiensis Fér. iv, 85; ix, 304
Ravergieri Bttg. . . ix, 304
Ravergii Kryn. . . ix, 304
Ravida Bens. iv, 48; . ix, 205
Ravidula Hde. iv, 49; ix, 205
Ravnii Beck, . . ix, 97
Rawnesleyi Cox, viii, 282; [ix, 133
Rawsonis Barcl. ii, 22.
Raymondi Tryon, ii, 67.
Raymondi Moq. iv, 149; ix, 325
Raynali Gass. i, 119.
Realis Mühlf. ii, 112, 115.
Rebellis Hde. iii, 183; ix, 275
Reboudiana Bgt. iv, 6; ix, 255
Recedens Garr. iii, 72; ix, 24
Recedens Pfr. ii, 24.
Recluziana LeGuill, . ix, 125
Recognitus Montf. . ix, 91
Recondita G.-Aust. ii, 60.
Recondita West. iv, 220; ix, 332
Recordera Parr. . . ix, 301
Rectangula Pfr. iii, 73; ix, 6
Rectilabrum Smith, . ix, 343
Redfieldiana C. B. Ad. ix, 89
Redfieldi Pfr. iv, 49; . ix, 205
Redempta Cox, vii, 70; ix, 143
Redimita W. G. B. iv, 74; [ix, 200
Redtenbacheri Zel. iii, 189; [ix, 272
Reedei Braz. ii, 181.
Reeftonensis Sut. viii, 102; [ix, 33
Reesmanni Cless. . . ix, 266
Reeveana Pfr. vi, 233; ix, 109
Reevei Pfr. . . ix, 227
Reevii Brod. . . ix, 227
Reflexiuscula Pfr. vii, 89.
Refuga Gld. iii, 164; . ix, 145
Regalis Pfr. ii, 19.
Regeliana Mts. . . ix, 267
Reginæ Brod. vii, 116; ix, 219
Regius Lob. i, 62.
Regularis Pfr. iii, 37; . ix, 9
Regularis Roth. . . ix, 260
Regulata Bens. ii, 96.
Rehbeini Pfr. vii, 190; ix, 225
Rehsei Mart. vi, 261; . ix, 120
Reinæ Ben. iii, 187; . ix, 274
Reinga Gray, vi, 185; . ix, 136
Reinhardi Mörch. ii, 47.
Reiseri Branc. . . ix, 301
Reitteri Bttg. ii, 142.
Rejecta Pfr. ii, 123.
Remissa Parr. . . ix, 263
Remondii Gabb. . . ix, 199
Rémondi Tryon, . . ix, 200
Remoratrix Morl. viii, 274; [ix, 124
Remota Bens. ii, 145.

- Renaltiana Hde. vi, 307; ix, 214
Renati Dautz, . ix, 259
 Reneana Anc. iii, 251.
 Renei Fag. iv, 104; . ix, 257
 Renitens Morel. ii, 80.
 Renoufi Serv. . ix, 252
 Repanda Möll. viii, 123; ix, 4
 Repanda Pfr. iv, 59.
 Repellini Charp. iv, 118; ix, 307
Repercussa Gld. . ix, 145
 Requiemi Bgt. iv, 17.
 Requiemi Moq. . ix, 254
 Rerayana Mss. iv, 145; ix, 325
 Reserata Hde. iii, 166; ix, 146
 Resiliens Beck, i, 174.
 Resinula G.-Aust. ii, 64.
 Resplendens Nevill. i, 180.
 Resplendens Phil. ii, 91.
 Ressimanni West. ii, 150.
Restricta Pfr. . ix, 215
 Retardata Cox, ii, 170.
 Retepora Cox, iii, 34; . ix, 34
 Reteporoides Tate, viii, 110;
 [ix, 34
 Retexta Sh. iii, 44; . ix, 47
 Reticulata Bttg. ii, 193.
 Reticulata Pfr. . ix, 199
 Retifera Pfr. iii, 161; . ix, 146
Retinella Shutt. ii, 12.
Retirugis Mke. . ix, 318
 Retisculpta Mts. viii, 152;
 [ix, 39
 Retowskii Cless. iii, 252; ix, 260
 Retrodens Mouss. iv, 166;
 [ix, 327
 Retrorsa Gld. ii, 16.
 Retunsa Pse. iii, 71; . ix, 24
 Retusa Pfr. vii, 157; . ix, 223
 Revelata Fér. iii, 180; . ix, 274
Revelierii Deb. iv, 112; ix, 305
 Revoluta Pfr., . ix, 145
 Rhætica Mouss. iv, 94; ix, 303
 RHAGADA Albers, . ix, 135
 Rhaphiellus Mart. i, 177.
 Rhea Pfr. ii, 30.
Rhenana Hartm. iv, 117.
 Rhenana Kob. . ix, 322
 Rhinocerotica Hde. vi, 271;
 [ix, 124
 Rhizophorarum Gass. iii, 36;
 [ix, 33
 Rhoda Ang. iii, 88; . ix, 5
Rhodia Chemn. . ix, 335
Rhodocheila Binn. . ix, 184
 Rhodochila Mlldff. viii, 273;
 [ix, 122
 Rhodochila West. . ix, 251
 Rhodomphala T.-C. vi, 297;
 [ix, 113
Rhodostoma Dr. . ix, 336
 Rhodostoma Mlldff. . ix, 205
 Rhombostoma Pfr. vii, 60;
 [ix, 142
 Rhynchæna A. D. Br. v, 106;
 [ix, 89
 Rhynchonella Tap.-Can. vii,
 [57; ix, 142
 Rhynchostoma Pfr. vii, 30;
 [ix, 141
 Rhysodes M. & P. viii, 141;
 [ix, 38
 RHYSOTA Alb. ii, 6, 28.
 Rhytephora Carp. iv, 18.
 RHYTIDA Alb. viii, 147.
 RHYTIDOPSIS Ancey, . ix, 20
 Rhytiphora Chemn. . ix, 256
 Ribbei Bttg. ii, 33.
Ricei Braz. . ix, 34
Richardi Fér. . ix, 76
 Richardi Kob. viii, 174; ix, 249
 Richardsonii E. A. Sm. vi,
 [185; ix, 136
 Richardsoni Mart. viii, 151;
 [ix, 74
 Richmondiana Pfr. vi, 90;
 [ix, 129
Richthofeni Mts. . ix, 206
 Ridens Mts. viii, 236; . ix, 330
 Ridibunda Tap.-Can. vii, 40;
 [ix, 142
 Riedelii Mart. ii, 41.
 Rigiaca Bgt. ii, 147.
 Rigophila M. & R. viii, 81;
 [ix, 41

- Riisei Pfr. v, 16; . ix, 186
 Rimicola Bens. ii, 55.
 Rimosa C. & J. . ix, 234
Rimula Lowe, . ix, 241
 Rinkii Mörch. ii, 124.
 Ripacurcica Bofill, . ix, 251
 Riparia Bl. . ix, 266
 Ripochi Mab. iv, 155; ix, 327
Riprochi, error for *ripochi*.
Ripularum Lessona, . ix, 273
 Rissoana Pfr. iii, 195; . ix, 272
 Ritchieana Pils. v, 138; ix, 94
 Rivolii Desh. iii, 156; . ix, 148
 Rivularis Kr. iii, 107; . ix, 38
Rivularis Mts. . ix, 44
Rizzæ Arad. . ix, 266
 Roberti Aust. ii, 99.
 Robillard Ang. vi, 32; ix, 157
 Robiniana Bgt. . ix, 251
 Roblini Pett. ii, 169; . ix, 34
 Robusta Woll. . ix, 241
 Robustus Gld. i, 169.
 Rochebrunei Mab. ii, 160.
 Rockhamptonensis Cox, vi,
 [159; ix, 134
 Rodriguezensis Cr. ii, 26; ix, 38
 Roebeleni Mlldff. . ix, 225
 Roemer Pfr. iii, 152; . ix, 77
 Rohdei Dohrn, viii, 273; ix, 120
 Roissyana Fér. vii, 151; ix, 223
 Rojasi Jouss. viii, 112; ix, 57
 Rokniaca Bgt. iii, 198; ix, 255
 Rollandi Bern. i, 62.
 Rollei Malz. viii, 236; . ix, 331
 Rolliana Smith, vii, 63; ix, 142
Romagnolii Dut. . ix, 305
 Romalea Bgt. . ix, 326
 Romana Fag. . ix, 257
 Romblonensis Pfr. . ix, 228
 Romulina Serv. . ix, 257
 Roperi Pils. viii, 154; . ix, 76
 Rorida Bens. ii, 124.
 Rosacea Müll. iii, 213; ix, 173
Rosacea Sowb. ii, 70.
 Rosai Silv. . ix, 275
 Rosalæ Ben. iv, 209; . ix, 330
Rosalia Risso, . ix, 283
 Rosamonda Bens. ii, 37.
 Rosarium Pfr. v, 188; . ix, 166
 Roschiti Kim. . ix, 300
 Roseolabiata Nev. vi, 82; ix, 154
 Roseolabiata Rm. . ix, 322
Roseolabiata Smith, . ix, 142
 Roseolimbata Mlldff. . ix, 228
 Roseotincta Fbs. . ix, 274
 Roseri Kr. iii, 108.
Roseti Pfr., . ix, 258
Rosetti W. & B. . ix, 258
Rossiana Gray, . ix, 223
 Rossiteriana Crosse, i, 114; [ix, 20
 Rossiteri Ang. vii, 109; ix, 220
Rossmässleri Cless. iv, 107; [ix, 301
 Rossmässleri Pfr. iv, 96; ix, 302
 Rössmässleri West. ii, 147.
 Rostrata Pfr. v, 126; . ix, 93
 Rostrella Pfr. vii, 83; . ix, 170
Rotabilis Rve.=Muhlfeldtiana [Pfr., ix, 159
 Rota Sowb. vi, 225; . ix, 108
 Rotatoria Busch, iv, 54; ix, 209
 Rotella Brazier, . ix, 34
 Rotellina Pse. iii, 60; . ix, 27
 Rothi Pfr. iii, 197; . ix, 266
 ROTULA Alb. ii, 5, 22.
 Rotula Hombr. iii, 67; ix, 35
 Rotula Lowe, iv, 46; . ix, 241
 Rotula Q. & M. . ix, 340
 ROTULARIA Mch. ii, 6, 47.
Rotundata Morel. . ix, 341
 Rotundata Mouss. viii, 261; [ix, 173
 Rotundata Müll. iii, 19; ix, 47
 Rotundata Semp. ii, 47.
 Rouvieriana Bgt. iii, 255; [ix, 260
 Rowellii Newc. iv, 72; . ix, 199
 Rozeti Mich. iii, 254; . ix, 260
 Rozetopsis L. & B. . ix, 260
Rubella Risso, . ix, 265
 Rubellocincta Blanf. ii, 78.
 Rubens Hartm. viii, 129; ix, 5
 Rubens Mlldff. . ix, 224
 Rubens Mts. iii, 205; . ix, 205
Rubescens Dh. ii, 80.

- Rubicunda* Pfr. ii, 35.
Rubiginosa Gld. iii, 59; ix, 27
Rubiginosa Schm. iii, 178; [ix, 274
Rubra Alb. vi, 260; . ix, 120
Rubra Chier. . ix, 272
Rubricata Gld. ii, 77.
Rubroflava Chier. ii, 155.
Rudens Hde. . ix, 171
Ruderata Stud. iii, 20; . ix, 47
Rudis Grt. iii, 39; . ix, 35
Rudis Mühlf. iv, 118; . ix, 307
Rudiuscula Pfr. iii, 93; . ix, 6
Rufa DeK. . ix, 76
Rufa Mlldff. viii, 133; . ix, 4
Rufa Pfr. ii, 22.
Rufescens Grat. ii, 77.
Rufescens Penn. iii, 175; ix, 274
Rufescens Pfr. i, 174.
Rufescens Plat. iii, 191.
Rufescens Schrenk. . ix, 224
Ruficincta Newc. iv, 72; ix, 200
Rufilabris Jeffr. . ix, 266
Rufina Jay, ii, 21.
Rufispira Mts. iii, 204; . ix, 267
Rufoapicata Poey, v, 36; ix, 185
Rufofasciata Braz. vi, 146; [ix, 131
Rufofilosa Bock, vii, 84; ix, 170
Rufogastra Less, vii, 207; ix, 227
Rufolabris Ben. iii, 233; ix, 250
Rufotincta Gass. i, 120.
Rufozonata Ad. ii, 25.
Rufozonata Mart. . ix, 192
Rufula Pfr. iii, 99; . ix, 58
Ruga Cox, iii, 264.
Ruga Godw.-Aust. ii, 65. .
Rugata Brus. . ix, 301
Rugata Mart. ii, 36.
Rugata Pse. iii, 67; . ix, 25
Rugeli Shuttlw. iii, 147ix,
Rugeli W. G. Binn. ii, 184.
Rugellosa Hartm. . ix, 254
Rugifera Dohrn. v, 195; ix, 167
Ruginosa Fér. iv, 63; . ix, 116
Rugosa Ant. . ix, 320
Rugosa Chem. . ix, 259
Rugosa Hemph. viii, 117; ix, 50
Rugosa Kob. . ix, 325
Rugosa Mühlf. . ix, 318
Rugosa Ziegl. iv, 205; . ix, 331
Rugosiuscula Mich. iv, 11; [ix, 255
Rugosiuscula Mich. . ix, 263
Ruida (B.) Cout. . ix, 255
Ruida Gld. . ix, 76
Rumelica Mouss. iv, 240; [ix, 319
Rumelica Z; . ix, 301
Rumphii Busch. ii, 20.
Rupestris Dr. iii, 51; . ix, 44
Rupicola (Bl.) West. . ix, 319
Rupicola Mlldff. ii, 67.
Rupicola Stab. . ix, 44
Ruppelli Dh. iii, 210; . ix, 205
Rurutuensis Grt. iii, 61; ix, 27
Rusicadensis Let. viii, 188; [ix, 272
Rüsii Pfr., error for Rüsei, *g. v.*
Rusinica Bgt. . ix, 267
Russelli Braz. ii, 179.
Russeola Morel. i, 177.
Russeola Morel. ii, 97.
Rustica Hartm. iv, 237; ix, 319
Rustica Mouss. vii, 187; ix, 225
Rustica Pfr. ii, 212.
Rustica Suter, . ix, 338
Rusticula Aust. ii, 99.
Rusticula Gass. iii, 26; . ix, 33
Rusticula Pal. iv, 14; . ix, 255
Rutilans Z. . ix, 278
Rypa Let. & Bgt. iii, 185.
Ryparia Bgt. . ix, 319
Ryssolemma Gray, ii, 15.
Ryssota Alb., orig. orthogr. for
Rhysota.
Sabæa Boiss. . ix, 248
Sabæa Mart. viii, 133.
Sabatieri Kob. viii, 165.
Sabiniana Mab. iv, 154; ix, 327
Sabuletorum Bens. iii, 107; [ix, 38
Sabulivaga Mab. . ix, 253
Sabulosa Haz. iv, 237; . ix, 319
Sabulosa Zgl. . ix, 263

- Saburra Gass. ii, 181. . ix, 33
 Saccata Pfr. ii, 19.
Saccharata Lwe. . ix, 243
Sachalensis Pfr. vii, 67; ix, 143
Sadleriana Zieg. iv, 89; ix, 302
SAGDA Beck, . ix, 58
SAGDINÆ, . ix, xxxii
SAGDINELLA Mch. ii, 9, 126.
Sagemon Beck, . ix, 93
Sageti Bgt. . ix, 260
Sagittifera Pfr. ii, 29.
Sagraiana Orb. v, 50; . ix, 180
Saharica Bgt. . ix, 257
Saharica Deb. viii, 56; . ix, 234
Saharica Kob. iv, 128; . ix, 324
Saidana Deb. . ix, 324
Saigonensis Crse. iii, 84; ix, 4
Saissetia Bayle, . ix, 342
Saisseti Montr. i, 117; . ix, 54
Sakalava Ang. vi, 26; . ix, 156
Salangana Mart. ii, 217.
Salassia Poll. . ix, 275
Salaunica Fag. . ix, 252
Salaziensis Nev. ii, 176.
Saldubensis Serv. . ix, 256
Salebrosa Lwe. iv, 44; . ix, 243
Salemensis L. & B. . ix, 336
Salentina Bl. . ix, 249
Salius Bens. i, 181.
Salivosa Bgt. . ix, 256
Salleana Pfr. . ix, 190
Salmonaceus Hemph. W. G.
 [B. ix, 52
Salmonensis Hemph. . ix, 52
Salmonensis Tryon, iii, 146;
 [ix, 76
Salmurina Serv. iii, 181; ix, 274
Salomonis LeGuill, ii, 87.
Salvanæ Fag. . ix, 257
Salvatoris Pfr. v, 19; . ix, 186
Salvini (Strobila) Tristr. iv, 77.
Samarensis Hid. . ix, 223
Samarensis Pfr. . ix, 109
Samarensis Semp. vii, 146;
 [ix, 222
Samboanga H. & J. vii, 124;
 [ix, 219
Samnitum West, . ix, 256
- Samoa* H. & J. iii, 81; ix, 6
Samoensis Bd. ii, 119.
Samoensis Mouss. ii, 180.
Sampoli Bgt. . ix, 325
Sampsoni Weth. viii, 152;
 [ix, 73
Samsunensis Zel. . ix, 267
Samuiana Mlldff. . ix, 124
Sanburni W. G. Binn. iii,
 [145; ix, 342
Sancta Bgt. ii, 156.
Sanctæannæ Sm. iii, 89; ix, 5
Sanctælucie Smith, v, 198;
 [ix, 97
Sandai Kob. . ix, 214
Sandwicensis Pfr. ii, 213.
Sanis Bens. iii, 84; . ix, 4
Sannio Pfr. ii, 18.
Sansitus Cox, iii, 81; . ix, 6
Santacruzensis Pfr. v, 23;
 [ix, 186
Santanaensis Pfr. ii, 165.
Santorina Let. iii, 250.
Sanziana H. & J. vi, 272; ix, 212
Saparuana Bttg. viii, 113.
Sapeca Heude. . ix, 4
Saponacea Lwe. iv, 183; ix, 328
Saporosa Mab. . ix, 275
Sappho Braz. ii, 215.
Saracena Ben. . ix, 331
Saranganica Hid. vi, 230;
 [ix, 109
Saranganica Mlldff. viii, 245;
 [ix, 220
Sarawakana Dohrn. ii, 21.
Sarcinosa Fér. vii, 195; ix, 227
Sarcocheila Mörch. v, 121;
 [ix, 93
Sarcochroa Pils. vi, t. 68, f.
 [85; ix, 108
Sarcodes Rve. ii, 105.
Sarcostoma W. & B., iv, 152;
 [ix, 327
Sarda Kob. . ix, 234
Sardalabiata Cox, vi, 171;
 [ix, 134
Sardiniensis Villa. viii, 164;
 [ix, 255

- Sardoa* Malz. viii, 55; . ix, 234
Sardoa Ziegl. iii, 224; . ix, 336
Sardonian v. Mts. viii, 236; [ix, 330
Sarelii Mts. iv, 49; . ix, 205
Sargentiana J. & P., viii, 153; [ix, 77
Sargenti Bld. v, 18; . ix, 186
Sargenti J. & P. . ix, 77
Sargi C. & F. iv, 80; . ix, 199
Sarinica Bgt. . ix, 275
Sarriensis Pena, iii, 193; ix, 266
Sata Aust. ii, 100.
Sativa Z. . ix, 320
Satsuma A. Ad. . ix, 168
Saturnia Gld. vi, 203; . ix, 104
Saturni Cox, iii, 24; . ix, 34
Satyrus Brod. viii, 13; . ix, 228
Saulcyi Orb. iv, 164; . ix, 327
Saulæ Pfr. = *palumba* Souv.,
which becomes a syn. ix, 104
Sauvallei Arango. v. 37; ix, 185
Savadiensis Nev. . ix, 209
Savesi Gass. ii, 168.
Savesi Pett. iii, 46; . ix, 13, 338
Savignyana Ehrenb. . ix, 300
Savinella Serv. . ix, 273
Saxatilis Couth. ii, 164.
Saxatilis Hm. . ix, 44
Saxetana Paul. iv, 224; . ix, 331
Saxicola Gld. . ix, 58
Saxicola Pfr. ii, 202.
Saxipotens Woll. . ix, 240
Saxivaga Malz. . ix, 274
Saxoniana Sterki, viii, 259; [ix, 284
Sayana Alb.-Martens, . ix, 64
Sayii Binn. iii, 155; . ix, 76
Sayii Wood, DeKay, . ix, 73
Scabra Lam. . ix, 50
Scabra Wood, . ix, 293
Scabrella Mke. . ix, 91
Scabricula Ad. iv, 59.
Scabriuscula Dh. iv, 203; ix, 330
Scabrosa Fér. . ix, 109
Scabrosa Poey, v, 61; . ix, 97
Scaevola Mts. vi, 306; . ix, 169
Scalariformis Ben. . ix, 330
Scalaris Müll. . ix, 319
Scalatella Mlldff. viii, 199; [ix, 280
Scalena Mart. v. 143; . ix, 94
Scalpta Grt. ii, 115.
Scalpta Mts. ii, 22.
Scalprum Val. ii, 27.
Scalpturita Bens. iii, 211; [ix, 205
Scandens Cox, ii, 179.
Scarburgensis Alder, . ix, 281
Scenoma Bens. vii, 83; . ix, 170
Scepasma Pfr. iv, 58; . ix, 209
Schadenbergi Mlldff. vii, 160; [ix, 224
Schadenbergi Mlldff. viii, 223; [ix, 205
Schaerfæ Pfr. vi, 43.
Schahbulakensis Bgt. . ix, 320
Schamhalensis Rosen. . ix, 284
Schaufussi Kob. iv, 110; ix, 255
Scheepmakeri Pfr. vi, 282; [ix, 111
Schembrii Scac. iv, 28; . ix, 263
Schensiensis Hilb. viii, 211; [ix, 206
Scherzeri Zel. iv, 212. . ix, 332
Schistoptychia Mlldff. iii, 165; [ix, 146
Schistostelis Bens. ii, 110.
Schlæflii Mouss. iv, 241; ix, 319
Schlærotricha Bgt. iv, 96; [ix, 302
Schlumbergeri Morl. iii, 166; [ix, 146
Schmackeriana Mlldff. ii, 120.
Schmackeri Mlldff. vi, 307; [ix, 214
Schmackeri Mlldff. . ix, 337
Schmeltziana Mss. ii, 47.
Schmidti Zgl. iv, 103; . ix, 302
Schombrii, . ix, 263
Schomburgiana Mlldff. . ix, 170
Schotti (Zel.) Pfr. . ix, 267
Schrenki Midd. iii, 200; ix, 267
Schræteriana Pfr. v, 108; ix, 89
Schræteriana Rv. . ix, 90
Schuberti Roth, iii, 195; ix, 272

- Semigranosa* Sowb. ii, 44.
Semihispida Anc. iii, 185.
Semimembranaceus Mts. i, 184.
Seminigra Morel. vi, 162;
 [ix, 134]
Seminium Morel. ii, 176.
Seminula Chier. ii, 144.
Seminulum Rossm. . ix, 281
Semipartita Desh. ii, 84.
Semipicta Hid. iv, 16; . ix, 255
Semiplicata Pfr. iii, 44; ix, 51
Semirasa Mouss. vi, 295; ix, 113
Semirufa Alb. viii, 245; ix, 222
Semirugata Beck. ii, 81.
Semirugosa Kob. viii, 188;
 [ix, 272]
Semisculpta Mart. ii, 82.
Semisculpta Mouss. ii, 194.
Semitecta Hartm. . ix, 244
Semitecta Mouss. iv, 181; ix, 328
Semperi Dör. i, 66.
Semperi Mlldff. . ix, 223
Sempriniana Hde. viii, 207;
 [ix, 206]
Senckenbergiana Kob. vi,
 [102; ix, 214]
Senckendorffiana error for sencken-
 dorffiana Pfr. . ix, 228
Sendtneri Cless. . ix, 307
Senegalensis Fér. . ix, 103
Senilis Morel. iv, 140; ix, 325
Separanda Zgl. iii, 174.
Separica Bgt. . ix, 267
Septemgyrata Mss. iii, 201;
 [ix, 267]
Septemvolva Say, . ix, 73
Septentrionalis Bgt. ii, 149.
Septentrionalis Cless. . ix, 307
Septentrionalis Cl. . ix, 274
Septentrionalis Sm. . ix, 143
Sepulchralis Fér. vi, 18, 301;
 [ix, 156]
Sepulchralis Rv., . ix, 156
Sequax Bens. ii, 96.
Sequentiana Ben. iv, 30; ix, 262
Sequoicola Coop. iv, 71; ix, 199
Seraphinica Heude, vi, 199;
 [ix, 104]
Serbica Mlldff. iv, 88; . ix, 300
Serena Cox, iii, 77; . ix, 5
Seriatisetia Roch. vi, 268; ix, 124
Serica G.-Aust. iii, 159; ix, 146
Sericata Sut. viii, 64; ix, 9
Sericatula Pfeiffer, ii, 208;
 [ix, 34]
Sericea Drap. iii, 178; ix, 274
Sericea Schrenk. . ix, 275
Sericella Serv. . ix, 275
Sericeus Mts. i, 178.
Sericina Bttg. viii, 114.
Sericina Mlldff. . ix, 337
Serotina Ad. vi, 106; . ix, 205
Serpens Martyn. v, 178; ix, 166
Serpens Spix, = feisthameli.
Serpentina Fér. iv, 214; ix, 331
Serpentinula Sut. viii, 103;
 [ix, 33, 339]
Serpentulus Adams, . ix, 92
Sepestes Hde. . ix, 210
Serrata H. Ad. iii, 87.
Serrula Bens. ii, 23.
Serrula Morel. . ix, 260
Serrulata Bk. iv, 25; . ix, 261
Serta Alb. iv, 193; . ix, 294
Servaini Bgt. iii, 31; . ix, 45
Servilis Shutt. . ix, 45
SESSARA Alb. ii, 9, 131.
Sesteri Gall. . ix, 333
Setabulensis error for setubalensis
 [Pfr. iii, 256; ix, 260]
Setigera Gld. . ix, 27
Setigera Sowb. ii, 86.
Setigera Zgl. iv, 100; . ix, 300
Setiliris Bens. ii, 133.
Setipila Benoit, . ix, 302
Setipila Zgl. . ix, 301
Setocincta A. Ad. iv, 59.
Setosa Costa, . ix, 301
Setosa Zgl. iv, 97; . ix, 302
Setubalensis Pfr. iii, 256; ix, 260
Setulosa Brig. iv, 90; . ix, 301
Sextentata Smith, . ix, 339
Sexlamellata Pfr. iii, 63; ix, 27
Servolva Parr. ii, 137.
Sevillensis Serv. . ix, 324
Sevilliana Grat. . ix, 324

- Sganziniana C. & F. vi, 301;
 [ix, 156
 Shanensis Aust. ii, 129.
 Shanensis Stol. iii, 162; ix, 146
 Shanghaiensis Pfr. iv, 56;
 [ix, 209
 Shanica Bedd. viii, 275; ix, 124
Schaufussi=*schaufussi*.
 Shavi Smith, vi, 34; . ix, 157
Sheldonia Anc. viii, 135.
 Shengorensis Aust. ii, 100.
 Sheridanani Braz. i, 124.
 Shermani Pfr. iii, 84; . ix, 4
 Shiplayi Pfr. ii, 130.
 Shiroensis G.-Aust. iii, 163;
 [ix, 145
 Shisha Aust. ii, 112.
Shuttleworthi Serv. . ix, 341
 Siamensis Haines, i, 179.
 Siamensis Pfr. ii, 86.
Siberica Friv. . . ix, 267
 Sibutuensis Sm. . . ix, 124
 Sibuyanica Hid. viii, 121; ix, 4
 Sibylla Tap.-Can. ii, 219.
 Sicana Fér. iv, 213; . ix, 330
 Sicanoides Kob. iv, 213; ix, 330
 Sicula Ben. iv, 219; . ix, 331
 Sicula Braz. vii, 45; . ix, 142
 Sicula Rossm. ii, 156.
Siculina Zgl. . . ix, 302
 Siderensis Malz. viii, 181;
 [ix, 260
Siderites Friv. . . ix, 260
 Sieboldtiana Pfr. iv, 47; ix, 205
 Sieversi Bttg. ii, 155.
 Sieversi Mart. viii, 263; ix, 95
Sigarellina Charp. . ix, 336
 Sigela Bgt. . . ix, 302
 Sigensis Kob. iii, 256; . ix, 260
Sigma Pfr. . . ix, 13
 Sigmoides Morel. iii, 101; ix, 57
 Signata Fér. iv, 223; . ix, 332
 Significans Bld. ii, 198.
 Sigurensis G.-Aust. ii, 62.
 Sikkimensis Nev. ii, 64.
 Sikrigaliensis Nev. ii, 97.
 Silanica Bgt. . . ix, 272
 Silenus Angas, vi, 254; ix, 120
 Siliens Cox, . . ix, 34
 Silveri Angas, vi, 191; . ix, 129
 Silvestrii Cafci, iv, 226; ix, 332
 Silvestris West. . . ix, 300
Simia Fér. . . ix, 293
 Simiarum Kob. . . ix, 256
 Similaris Fér. iii, 205; . ix, 205
 Similis C. B. Ad. iii, 9; ix, 64
 Similis Cox, . . ix, 34
 Similis Semp. ii, 110.
 Simillima Pse. ii, 114.
Simocheila Bgt. . . ix, 324
 Simodæ Jay, vi, 95; . ix, 213
 Simoniana Bgt. iii, 31; ix, 45
 Simoni Bttg. ii, 193.
 Simplex Jonas, viii, 33; ix, 229
 Simplex Lam. ii, 21.
Simplicaria Mouss. . ix, 31
 Simplicilabris Anc. ii, 207.
 Simplicata Parr. iii, 194; ix, 265
 Simplicula Morel. ii, 152.
 Simson Pfr. v, 116; . ix, 90
 Simulans Ad. ii, 174.
 Simulata Fér. iii, 232; . ix, 249
 Sinaica Mart. viii, 178; ix, 248
 Sinapidium Reinh. ii, 177.
 Sincera C. B. Ad. iii, 99; ix, 58
 Sinclairi Pfr. i, 121.
 Sinensis Hde. ii, 103.
 Singularis Pfr., see *Bulimulidæ*.
 Sinica Mlldff. ii, 126.
Sinica Mts. . . ix, 205
 Sinicus Mart. i, 179.
 Siningfuensis Hilb. viii, 211;
 [ix, 206
Sinistrorsa Desh., *Bulimulidæ*.
Sinistrorsa Möll. . . ix, 214
 Sinistrorsum Tayl. . ix, 307
Sinuata Deless. . . ix, 90
 Sinuata Müll. v, 114; . ix, 90
 Sinulabris Mart. ii, 171.
 Sinuosa Fér. v, 115, . ix, 90
 Siphnica Kob. . . ix, 260
 SIPHONADENIA, . . ix, 235
 Sipunculata Forbes, v, 162;
 [ix, 95
 Siquijorensis Brod. vii, 159;
 [ix, 223

- Siquijorensis* Pfr. . . ix, 228
Siquijorica Mlldff. vii, 125; [ix, 220
Sirena Beck, vii, 98; . ix, 215
Sisparica Blf. ii, 38.
SITALA Ad. ii, 7, 52.
Siticulosa Fag. . . ix, 256
Sitifensis Bgt. viii, 165; ix, 249
Sitiens Cox, . . ix, 338
Sivalensis Hutt. ii, 61.
Sivella Blanford, . . ix, 1
Skiaphila Orb. i, 63.
Skinneri Reeve, vi, 84; ix, 154
Sloaneana Shutt. v, 111; ix, 90
Slouguia L. & B. . . ix, 251
Smaragdina Grat. . ix, 219
Smaragdina Rve. viii, 37; [ix, 229
Smaragdulus Bk. i, 174.
Smaragdus Beck, . . ix, 225
Smithiana Pfr. ii, 164.
Smithii Bock, iv, 57; . ix, 116
Smithi Suter, . . ix, 338
Smiruensis Mouss. iii, 184.
Smyrnensis Roth. ii, 136.
Sobara Bgt. . . ix, 266
Sobrina Fér. v, 80; . ix, 98
Soccaliana Let. . . ix, 300
Socia Rm. iv, 248; . ix, 320
Socia Sowb. . . ix, 33
Societatus Mouss., Schm. ix, 26
Sogdianus Mts. i, 175.
Solaciaca Mab. viii, 159; ix, 255
Solanoi Serv. . . ix, 256
Solaria Mke. iii, 43; . ix, 47
Solarium Spix, . . ix, 166
Solarium Q. & G. iii, 80; ix, 5
Solarium Risso, . . ix, 262
Solaroides Rv. iii, 85; . ix, 4
SOLAROPSIS Beck, . ix, 166
Solata Bens. ii, 80.
Soleilleti Bgt., iii, 260; . ix, 260
Solida Pfr. vii, 153; . ix, 223
Solida Pfr. viii, 8; . ix, 228
Solida Ziegl. . . ix, 320
Solidior Kob. . . ix, 304
Solidiuscula Sm. ii, 111.
Solidula Crosse, i, 114.
Solidula Pfr. ii, 23.
Solidus G.-A. i, 180.
Solitaria Haz. iv, 237; . ix, 319
Solitaria Pfr. . . ix, 264
Solitaria Poir. . . ix, 254
Solitaria Say, iii, 58; . ix, 50
Solitudinis Bgt. iii, 198.
Solivaga Rve. viii, 9; . ix, 228
Sollieri Bgt. . . ix, 330
Solorensis v. Mts. vi, 190; [ix, 136
Soluta Mich. . . ix, 324
Soluta Rve. ii, 80.
Soluta Zgl. . . ix, 330
Somersetensis M. & P. viii, [295; ix, 38
Sonamargensis Nev. ii, 121.
Sonorensis Coop. . . ix, 52
Sophiæ Gaskoin, ii, 83.
SOPHINA Bens. ii, 8, 109.
Sordida Pfr. iv, 65; . ix, 116
Sordulenta Morel. iii, 177; [ix, 275
Sorella Mouss. ii, 141.
Sororcula Ben. iii, 29; . ix, 45
Sororcula v. Mart. vi, 228; [ix, 109
Soror Fér. v, 107; . ix, 89
Sororia Cox, ii, 123.
Souleyetiana Pfr. ii, 40.
Souverbiana Fisch. vi, 66; [ix, 153
Sowerbyana Pfr. ii, 29.
Spadæ Calc. . . ix, 252
Spadicea Gm. ii, 17.
Spælla L. & B. . . ix, 263
Spællina L. & B. . . ix, 263
Spaldingi Braz. . . ix, 34
Spanias Nev. . . ix, 322
Sparnacensis Dh. . . ix, 282
Sparsa Mouss. ii, 69.
Specialis Bgt. . . ix, 257
Speciosa Jay, . . ix, 222
Speciosa Pfr. . . ix, 222
Speciosa Ziegl. . . ix, 325
Spectabilis Pfr. ii, 107.
Spectabilis Zgl. . . ix, 263
Spectra Cox, iii, 266; . ix, 34

- Stelzneriana* Ph. iii, 43; ix, 41
Steneligma Bgt. . . ix, 275
Stenochila Mlldff. iii, 159;
 [ix, 146
Stenogyra A. Ad. ii, 178.
Stenogyra Mlldff. . . ix, 4
Stenogyra Pfr. iii, 124; ix, 83
Stenomphala Mke. iv, 88; ix, 300
Stenomphala Mlldff. ii, 121.
Stenopsis Moq. . . ix, 215
STENOPUS Gldg. ii, 11, 182.
Stenostoma Pfr. v, 48; . ix, 182
Stenostoma Raf. . . ix, 69
Stenostrepta Pfr. . . ix, 83
Stenotrema Fér. iii, 140; ix, 78
STENOTREMA Raf. . . ix, 77
Stenozona Mlldff. vi, 119;
 [ix, 214
Stenozona Mlldff. viii, 133;
 [ix, 5
Stentzii Partsch. . . ix, 287
STEPHANODA Albers, . ix, 40
Stephanophora Desh. ii, 205.
Stephensi Cox, iii, 46, 262;
 [ix, 14, 338
Stephensoniana Braz. . ix, 134
Stephoides Stol. ii, 94.
Stephus Bens. ii, 118.
Stepsanoda Pfr. . . ix, 40
Stercolena West.=stereolena
 [Bgt.
Stereodonta Bgt. . . ix, 325
Stereolena Bgt. iii, 229; ix, 251
Sterilis Hde. . . ix, 209
Sterkiana Sut. viii, 101; ix, 33
Sterna Alb. . . ix, 307
Steudneri Jick. ii, 61.
Steursiana Shutt. vii, 33; ix, 141
Steursii Shutt. ii, 82.
Sticta Bgt. . . ix, 326
Stictica West. . . ix, 256
Stigmatica Pfr. iii, 100; ix, 58
Stilpna Mab. vi, 53; . ix, 157
Stimpsoni Pfr. iii, 206; ix, 205
Stiparum Rm. iii, 241; ix, 249
Stipulata Rve. iii, 94; . ix, 30
Stiversiana Coop. . ix, 199
Stoddarti Gray, iii, 73.
- Stokesi* Sm. iii, 262; . ix, 32
Stolephora Val. ii, 29.
Stoliczkana Hilb. . . ix, 206
Stoliczkana Nev. iii, 250; ix, 206
Stoliczkanus Nev. i, 175.
Stolidota Q. & M. . ix, 342
Stolliana Mts. . . ix, 191
Stolli Mart. . . ix, 192
Stoltzmanni Lub. v, 150; ix, 94
Stomatodæa Bgt. . . ix, 324
Storiana Mouss. . . ix, 124
Stostoma Rv. . . ix, 96
Strabo Braz. vii, 60; . ix, 142
Stragulum C. & F. vi, 23,
 [302; ix, 156
Straminea Alb. . . ix, 89
Straminea Brig. iv, 240; ix, 319
Straminea Hde. iii, 207; ix, 205
Straminea Semp. ii, 124.
Straminea Semp. viii, 39; ix, 230
Straminiformis Bgt. . ix, 319
Strangei Pfr. i, 123, 169.
Strangeoides Cox, i, 125.
Strangulata C. B. Ad. v,
 [112; ix, 90
Strangulata H. & J. . ix, 114
Streatori Pils. viii, 240; ix, 183
Strebelsi Pfr. iii, 139.
Streptaxon Rv. . . ix, 24
Streptostoma Mlldff. . ix, 223
Striata Brard. . . ix, 249
Striata Müll. iv, 7; . ix, 255
Striata Semp. . . ix, 229
Striatella Anth. iii, 20; ix, 48
Striatella Cless. . . ix, 253
Striatissima Dh. iii, 207; ix, 205
Striatissima Pils. vii, 162;
 [ix, 223
Striatula Bk. . . ix, 249
Striatula Fabr. iv, 105.
Striatula Gray, ii, 153.
Striatula Hartm. . . ix, 254
Striatula Semp. ii, 35.
STRIATURA Mse. ii, 13, 201.
Strigata Dillw. . . ix, 336
Strigata Mlldff. . . ix, 225
Strigata Mlldff. . . ix, 227
Strigata Müll. iv, 218; . ix, 331

- Strigatula* Hartm. . ix, 254
Strigella Drap. iii, 202; ix, 267
Strigelloides Poll. viii, 190;
 [ix, 268
Strigilis Pfr. iii, 85; . ix, 5
Strigosa Gld. viii, 117; ix, 50
Striolata C. Pfr. . ix, 274
Striolata Guild. . ix, 97
Striolata Phil. . ix, 47
Striolata Pse. ii, 124.
Strobeliana Ph. iii, 43; ix, 41
Strobili Less. . ix, 303
Strobila Hutton, . ix, 27
STROBILA Morse, iii, 138.
Strobilodes M. & P. viii,
 [147; ix, 38
Strobilus Fér. . ix, 182
Strongylodes Pfr. . ix, 50
Stroudensis Cox, iii, 25; ix, 34
Strubelli Bttg. viii, 126; ix, 5
Strubelli Bttg. . ix, 192
Strucki Mz. . ix, 256
Strumosa Pfr. v, 15; . ix, 186
Stuartiæ Sowb. ii, 70.
Studeriana Fér. vi, 87; ix, 151
Stulta Mab. iv, 165; . ix, 327
Stumpffi Kob. vi, 35; . ix, 157
Sturmiana Pfr. vi, 317; ix, 37
Stussineri Bttg. . ix, 276
Stutchburyi Pfr. vi, 148; ix, 131
Stuxbergi West. . ix, 275
Stylodon Beck, . ix, 149
Stylodon Pfr. ii, 27.
Stylodon Rv. ii, 24.
STYLODONTA Crist. & Jan.
 [ix, 149
Styloptycha Pfr. iv, 58; ix, 171
Styriaca Fld. iv, 119; . ix, 307
Suanetica Bttg. ii, 193.
Suanetica Bttg. . ix, 304
Suarezensis C. & F. vi, 302;
 [ix, 157
Suavis Gundl. iii, 100; . ix, 58
Subacuta Pfr. v, 100; . ix, 89
Subalbida Poir. . ix, 249
Subalpina Scholtz, . ix, 307
Subangulata Ad. & Ang, ii, 215.
Subangulata Iss. iv, 129; ix, 324
Subangulata Kob. . ix, 326
Subangulata Pfr. ii, 169.
Subantialba Sut. viii, 104;
 [ix, 33
Subaperta Ancey, . ix, 318
Subapicina Mouss. iv, 6; ix, 255
Subaquila Shutt. iii, 98; ix, 58
Subatra Pils. . ix, 214
Subatra Pils. . ix, 223
Subaurantia Mart. . ix, 192
Subaustriaca Bgt. . ix, 322
Subbadiella Bgt. . ix, 274
Subbrevieri Bgt. . ix, 325
Subbrocheri Pils. v, 55; ix, 189
Subcæolata Less. iii, 173; ix, 275
Subcallifera Lwe. . ix, 242
Subcarinata Cless. ii, 140.
Subcarinata Cless. . ix, 274
Subcarinata Hemph. viii,
 [118; ix, 50
Subcarinata Hemph, . ix, 199
Subcarinata Mke. . ix, 337
Subcarinata Pfr. viii, 19;
 [ix, 228
Subcariosula Bgt. iii, 13; ix, 234
Subcastanea Pfr. v, 157; ix, 94
Subcavernula Tryon, iii, 70;
 [ix, 24
Subchinensis Nev. iv, 62; ix, 210
Subchristinæ Anc. . ix, 207
Subcinctula Hde. . ix, 210
Subcicercula Grt. ii, 124.
Subclausa Rm. . ix, 255
Subcoacta Gass. iii, 26; ix, 33
Subconella Mldff. iv, 258;
 [ix, 209
Subconica Ad. v, 40; . ix, 183
Subconoidea Pfr. ii, 96.
Subconsanguinea Pils. vi, 30;
 [ix, 157
Subcornea Pfr. ii, 92.
Subcorpulenta Sm. vi, 251;
 [ix, 120
Subcostalis Parr. . ix, 301
Subcostulata Bgt. iv, 9; ix, 255
Subcostulata G.-Aust. ii, 62.
Subdædalea Mouss. iii, 64;
 [ix, 27

- Subdecussata* Pfr. ii, 58.
Subdeflexa Bttg. iv, 102; ix, 303
Subdentata Fér. iii, 226; ix, 337
Subdepressa Braz. . ix, 34
Subechinata Dh. iii, 182; ix, 275
Subeffusa Bttg. ii, 143, 220.
Subelliptica Mouss. v, 139; [ix, 94
Suberis Loc. . ix, 251
Suberrans Mouss. . ix, 249
Subflava Fér. iv, 105.
Subflava G.-Aust. vii, 85; ix, 170
Subflava Kim. . ix, 302
Subfulva Gass. ii, 181.
Subfunebri Mab. vi, 55; ix, 158
Subfusca Beck, ii, 105.
Subfusca Gredl. . ix, 170
Subfusca Poey, . ix, 184
Subgeminata Mouss. . ix, 337
Subgibbera Mlldff. vi, 200; [ix, 101
Subglabra Bgt. ii, 146.
Subglobosa Bgt. . ix, 44
Subglobosa Binn. . ix, 322
Subglobosa Jeffr. . ix, 274
Subglobosa Mlldff. . ix, 224
Subglobosa Pils. viii, 152; [ix, 78
Subglobosus Lea, . ix, 227
Subgranosa Le Guill, vi, 137; [ix, 131
Subgravidata Mab. iv, 157; ix, 327
Subgriseola Hde. . ix, 170
Subhainanensis Pils. vi, 205; [ix, 104
Subhispidula Mouss. . ix, 288
Subhorizontalis Mlldff. . ix, 342
Subhyalina Pfr. ii, 166.
Subhydatina Poll. ii, 220.
Subiberica Fag. . ix, 257
Subincarnata Suter, . ix, 338
Subinflata Mouss. . ix, 248
Subintersecta Bgt. . ix, 256
Subjavanica Mouss. ii, 79.
Subjecta Bens. ii, 88.
Subjobæana Kob. iv, 142; ix, 325
Subkrynckiana Mouss. ix, 250
Sublævis West. iii, 54; ix, 281
Sublaminata Mouss. . ix, 35
Sublecta Malz. iv, 116; ix, 277
Sublesta Bens. ii, 213; ix, 35
Subleucozona Fag. . ix, 278
Sublimbata Bgt. . ix, 271
Sublirata G.-Aust. ii, 56.
Sublorioliana Pils. vi, 147; [ix, 131
Sublucerna Pils. v, 102; ix, 89
Subluteata Serv. . ix, 249
Submandarina Pils. vi, 122; [ix, 214
Submariella Pils. . ix, 207
Submaritima Desm. . ix, 249
Submarmorata Woll. . ix, 341
Submeridionalis Bgt. iv, 14; [ix, 256
Submeris Migh. . ix, 184
Submissa Desh. iii, 182; ix, 124
Submontana Mab. . ix, 274
Subnana Nev. ii, 60.
Subneglecta Bgt. . ix, 256
Subnemoralis Nev. . ix, 322
Subnigritella Bedd. viii, 127; [ix, 4
Subnimbosa Kob. . ix, 214
Subnitens Bgt. ii, 158.
Subnitens Gass. ii, 167.
Subnitidosa Mouss. ii, 154.
Subnivellina Bgt. iii, 250; ix, 268
Subnumidica Bgt. . ix, 263
Subobstructa Bgt. iii, 196; [ix, 267
Subobvolvata Anc. . ix, 287
Subopaca Pfr. ii, 96.
Suborbicula Dohrn, i, 251.
Suborbicularis Mts. iii, 203; [ix, 267
Suborcina Fag. . ix, 257
Subpalliat Pils. . ix, 77
Subparasitica Hde. . ix, 170
Subperakensis Pils. vii, 82; [ix, 170
Subpersonata Midd. iii, 147; [ix, 309
Subpisana Bgt. . ix, 336
Subplana Binn. ii, 185.
Subplanata Petit, . ix, 95

- Subplebeia* Less. iii, 173; ix, 275
Subplicata Sowb. iv, 236; ix, 318
Subplicatula Bgt. ii, 157.
Subprofuga Stab. iii, 233;
 [ix, 256
Subpuella Pils. vii, 121; ix, 220
Subpulchella Sandb. . ix, 282
Subpyramidalis C. B. Ad. ix, 58
Subrepta H. & J. . ix, 140
Subrimata Reinh. ii, 140, 142.
Subroseotincta Woll. iv, 195;
 [ix, 294
Subrostrata Fér. iii, 231; ix, 249
Subrudis Pfr. . ix, 50
Subrufescens Mill. . ix, 273
Subrugata Pfr. ii, 169.
Subrugosa Braz. . ix, 35, 338
Subrugosa Dh. viii, 211; ix, 206
Subrugosa Grt. ii, 49.
Subrupicola Dall, ii, 160.
Subrutila Migh. ii, 124.
Subscabriuscula Bgt. . ix, 330
Subscalaris Bgt. . ix, 259
Subsecta Tate, iv, 66; . ix, 114
Subsenilis Cr. . ix, 325
Subsepulchralis Cr. vi, 22;
 [ix, 156
Subsidualis Cr. i, 117.
Subsimilis Dh. . ix, 207
Subsloaneana Pils. v, 110;
 [ix, 90
Subsquamulata Hde. . ix, 170
Substriata Cl. iv, 9; . ix, 256
Substrigata Bgt. . ix, 331
Subsulcata Mlldff. . ix, 343
Subtecta Pfr. ii, 130.
Subterranea Bgt. ii, 138.
Subtersa Gass. iii, 35; . ix, 33
Subtigrina Bgt. . ix, 302
Subtilis Ant. ii, 113.
Subtilis Grt. iii, 66; . ix, 27
Subtilis Lwe. . ix, 288
Subtilissima Gld. ii, 117.
Subtricolor Mab. viii, 134;
 [ix, 4
Subtrochiformis Mouss. iii,
 [79; ix, 6
Subturritula Nev. iii, 74.
Subtussulcata Wright, v, 51;
 [ix, 180
Subulivaga Mab. iii, 251.
Subunicolor Bttg. . ix, 304
Subunicolor C. & F. . ix, 191
Suburbana Paul. viii, 236;
 [ix, 331
Subvariegata Malz. viii, 163;
 [ix, 256
Subvitrea Pfr. vii, 107; ix, 220
Subzonata Bgt. . ix, 336
Subzonata Mouss. iv, 93; ix, 303
Succinacia Bttg. ii, 193.
Succincta H. Ad. vi, 118;
 [ix, 214
Succincta Rve. viii, 17; ix, 228
SUCCINEA Dr. . ix, xviii
Succinea Pfr. ii, 118.
Succinea Stud. ii, 171.
Succineus Rv. i, 183.
Succinulata Le Guill, ii, 124.
Sudensis Pfr. iii, 30; . ix, 48
Sudestensis Hedlev. . ix, 120
Suffodiens Bttg. viii, 219; ix, 205
Suffulta Bens. ii, 27.
Sulcifera Barcl. ii, 21.
Sulcipes Mörch. iii, 84; ix, 4
SULCOBASIS Tap.-Can. . ix, 120
Sulcocinctus Mart. vi, 196;
 [ix, 155
Sulcosa Pfr. vi, 260; . ix, 120
Sulculata C. & J. . ix, 263
Sulfurata Mart. ii, 75.
Sulliotii Poll. . ix, 263
Sulphurea Rve. ii, 72.
Sulphurosa Morel. v, 54; ix, 189
Sultana Morel. iv, 202; ix, 330
Sumatrana Mart. ii, 79.
Sumatrana Mts. iv, 56; ix, 209
Sumatrensis Mouss. ii, 18.
Sumatrensis Schep. i, 178.
Sumichrasti C. & F. iii, 184;
 [ix, 199
Sundana Mart. ii, 79.
Superbus Cox, i, 172.
Superbus Pfr. vi, 81; . ix, 154
Superflua Rossm. ii, 191.
Superlita Morel. ii, 104.

- Supertexta Pfr. iv, 82; ix, 181
 Suppressa Say, ii, 200.
 Suprabadia Semp. viii, 246;
 [ix, 224
 Supracostata Kob. viii, 149;
 [ix, 288
 Supracostulata Schep. viii,
 [283; ix, 136
 Suprazona Mouss. . ix, 249
 Surinamensis Pfr. ii, 165.
 Surrecta Bttg. . ix, 112
 Surrentina Schm. iv, 218;
 [ix, 331
 Surrodonta Bgt. iv, 142; ix, 325
 Suspecta West. . ix, 251
 SUTERIA Pilsbry, . ix, 17
Sutilosa Fér. . ix, 131
 Suturalis Bttg. ii, 195.
 Suturalis Mlldff. . ix, 337
 Suturalis Mts. i, 178.
 Suturalis Pfr. iii, 49; . ix, 199
Swainsoniana C. B. Ad. v,
 [109; ix, 90
 Swainsoni Pfr. iii, 91; . ix, 6
 Swettenhami Morg. iii, 267.
Swifti Pfr. . ix, 58
 Swinhoei Pfr. vi, 115; . ix, 214
 Sydneysensis Cox, ii, 155.
 Sykesi Smith, . ix, 343
 Sylhetensis G.-A. i, 183.
Sylhetensis Aust. ii, 100.
 Sylvana Dohrn & Semp. ii, 49.
 Sylvanoides Semp. . ix, 231
 Sylvatica Dr. iv, 125; . ix, 322
Sylvestris Alt. . ix, 267
Sylvestris Hartm. . ix, 272
Sylvia Hutt. viii, 98; . ix, 32
Sylvicola Blanf. ii, 131.
 Symmetrica Crav. iii, 108.
 Synerosa Serv. . ix, 252
Synæcia Mlldff. viii, 133; ix, 5
 Syntela Bgt. . ix, 257
 Syrensis Pfr. iv, 28; . ix, 260
 Syriaca Ehr. iii, 197; . ix, 267
 Syriaca Kob. ii, 149.
 Syrosina Bgt. . ix, 260
 Systropha Alb. iii, 127; ix, 83
 SYSTROPHIA Pfr. . ix, 83
- Szechenyii Anc. . ix, 275
 Tabarkana L. & B. . ix, 250
 Tabellata Lwe. iv, 46; . ix, 243
Tabescens Cox, . ix, 13
 Tabida Pfr. iii, 94; . ix, 208
 Tabuensis Anc. iii, 218; ix, 169
 Tabulæ Chap. viii, 139; ix, 38
 Tacapica L. & B. . ix, 250
 TACHEA Leach, . ix, 320
 TACHEOCAMPYLÆA Pfr. ix, 304
Tachigyra West. . ix, 305
 Taconera Serv. . ix, 256
Tæniata Nyst. . ix, 199
Tæniata Rv. . ix, 243
Tæniata West. . ix, 250
Tæniata West. . ix, 275
Tæniata W. & B. iv, 37; ix, 243
 Tafermica L. & B. . ix, 251
 Tagalensis Dohrn, ii, 85.
 Tagina Serv. iv, 130; . ix, 324
 Tahaensis Try. ii, 115.
Taheitana Hartm. ii, 30.
 Tahitensis Grt. ii, 49.
 Tais Hombr. & Jacq. ii, 48.
 Taivanica Mlldff. ii, 21.
Taivanica Mlldff. iv, 33; ix, 171
 Takredica Bgt. . ix, 326
 Talamonica Kob. viii, 231;
 [ix, 331
 Talcosa Gld. ii, 52.
 Talepora Bgt. . ix, 251
Taliensis Hde. . ix, 211
 Talifouensis Hde. . ix, 211
 Talmacensis Blz. . ix, 252
 Talysehana Mts. iii, 195; ix, 267
 Tamarensis Pett. . ix, 35, 338
Tamaulipasensis Lea, . ix, 74
 Tamora Hutt. viii, 70; . ix, 16
 Tamsiana Dkr. v, 169; ix, 95
 Tandianensis Theob. iii, 94.
 Taneæ Grt. iii, 62; . ix, 25
 Tanirensis Aust. ii, 99.
 Tanora Serv. . ix, 273
 Tanqueryi C. & F. iv, 64;
 [ix, 124
Tanychlamys Bens. ii, 8.
 Tapadu Gray, . ix, 316

- Tapeina* Bens. iv, 53; . ix, 209
Tapirina Hutt. iii, 23; viii, [97; ix, 33
Tapparonei Smith, . ix, 142
Taprobanensis Dohrn, ii, 84.
Taranaki Gray, . ix, 114
Tarapotonensis Moric. v, [170; ix, 95
Tarasconensis Bgt. . ix, 256
Tardyi Bgt. . ix, 252
Tarentina Kob. iv, 207; ix, 331
Tarentina Pfr. iv, 24; . ix, 263
Targioniana Paul. ii, 144.
Taria Bgt. . ix, 251
Tarifensis Bgt. . ix, 257
Tarnieri Morel. iii, 118; ix, 288
Taslei Cr. iii, 36; . ix, 33
Tasmanie Cox, iii, 34; [ix, 35, 338
Tassyana Fag. . ix, 257
Tassyi Bgt. . ix, 271
Tatrica Haz. . ix, 288
Tauchoniana Bgt. . ix, 253
Tau Pfr. viii, 98; . ix, 33
Taumantias Tap.-Can. vii, [39; ix, 142
Taurica Cless. ii, 147.
Taurica Kryn. iv, 241; ix, 319
Taurica Partch. . ix, 259
Taurinensis Pini, . ix, 266
Taviuniensis Garr. viii, 133; [ix, 6
Taviuniensis Liard, ii, 125.
Tavinniensis (err. for taviun- [iensis) iii, 92; ix, 6
Tayloriana Ad. & Rv. vii, [58; ix, 142
Tchefouensis C. & D. iii, [182; ix, 275
Tchihatcheffi Kob. iv, 126; [ix, 322
Tchiliensis Mlldff. . ix, 206
Teba Leach, . ix, 264
Tebourbana Let. & Bgt. ix, 250
Tecta Zgl. iii, 187; . ix, 272
Tectiformis Sowb. iv, 42; ix, 243
Tectula Lowe, . ix, 242
Tectumsinense Mts. iv, 59; [ix, 207
Tehuantepecensis Cr. & [Fisch. ii, 165.
TELEOPHALLOGONA, ix, xxxiii.
Telitecta Mlldff. viii, 222; [ix, 122
Tellica Bgt. . ix, 260
Telonensis Mitt. iii, 186; ix, 275
Temperata Mss. iv, 164; ix, 327
Tenebraria Bgt. ii, 143.
Teneitensis Bgt. error for ten- [ietensis.
Tenella Garr. ii, 77.
Tenella Pfr. vi, 269; . ix, 124
Tenellus Gld. i, 171.
Tenera A. Ad. ii, 178.
Tenera Jonas, ii, 127.
Tenera Reinh. viii, 255; ix, 283
Tenera Sowb. vii, 179; . ix, 225
Tenera Stud. ii, 146.
Tenerrima C. B. Ad., v, 8; [ix, 67
Tenietensis Bgt. iii, 180; ix, 275
Tenimberica Mlldff. viii, [220; ix, 205
Tenimberica Mlldff. viii, 244; [ix, 220
Tennesseensis Lea, . ix, 77
Tentoriolum Gld. iii, 79; ix, 6
Tenuicostata Dkr. . ix, 184
Tenuicostata Grt. iii, 39; ix, 35
Tenuicostata Shutt. . ix, 341
Tenuicula H. Ad. ii, 97.
Tenuilabris Br. viii, 258; ix, 284
Tenuiradiata Q. & G. . ix, 142
Tenuisculpta West. . ix, 253
Tenuis Dillw. ii, 171.
Tenuis Mlldff. vii, 126; ix, 220
Tenuis Pfr. vii, 91; . ix, 125
Tenuistria Phil. . ix, 340
Tenuistriata Binn. iii, 27.
Tenuistriata Phil. . ix, 340
Tenuitesta Mlldff. viii, 273; [ix, 122
Tephrites Morel. v, 31; ix, 184
Tephrodes Pfr. vii, 183; ix, 224

- Terceirana* Morel. iv, 197; [ix, 293
Teriaensis G.-Aust. ii, 64.
Ternaria Hde. . ix, 169
Ternatana Guill. iii, 76; ix, 5
Terrestris Forsk. . ix, 318
Terrestris Gmel. . ix, 204
Terrestris Penn. iv, 29; ix, 262
Terricola Bgt. . ix, 257
Tersa Iss. ii, 117.
Tersa Zgl. . ix, 288
Tertiana Blf. ii, 56.
Terveriana Grt. vi, 37; ix, 157
Terveriana Mouss. . ix, 264
Terveri Mich. iii, 240; . ix, 249
Tescorum Bens. vi, 187; ix, 136
Tessellata Fér. . ix, 291
Tessellata Mühlf. iii, 47; ix, 41
Tesseraria Bttg. . ix, 29
Testacea Mart. viii, 191; ix, 277
Testæ Phil. ii, 147.
Testudinalis Lwe. iv, 46; ix, 243
Testudinaria Gass. i, 119.
Testudo Pfr. vii, 89; . ix, 157
Tetragona Mor. iv, 21; . ix, 261
Tetrazona Jan. iv, 218; ix, 331
Tetrica Paiva, iv, 44; . ix, 243
Tetrodon Möll. iii, 149; ix, 279
Tetrodontina Anc. . ix, 279
Tetuanensis Kob. ii, 196.
Tetuanensis Kob. iv, 213; ix, 330
Texasiana Moric. iii, 135; [ix, 74
Texta Hedley, viii, 294; ix, 35
Texta Mouss. iv, 248; ix, 320
Textilis Sh. iii, 31; . ix, 48
Textrina Bens. ii, 83.
Textrix Pfr. iii, 35.
Teysmanni Mouss. ii, 76.
Thaisa Hutt. viii, 70; ix, 16
THALASSIA Alb. . ix, 12
Thalassia Hutton, . ix, 12
Thalassina Porro, . ix, 324
THALASSOHELIX Pilsbry, [ix, 12
Thalia Dohrn, ii, 35.
Thamnivaga Mab. . ix, 307
Thanasima Mab. iv, 173; ix, 327
THAPSIA Alb. ii, 9.
Thatcheri Cox, vi, 164; ix, 134
Thaumalea Mab. iv, 152; [ix, 327
THAUMATODON Pilsbry, ix, 26
Thayaca Bgt. iii, 11; . ix, 234
Thea Alb. . ix, 208
THEBA Risso, . ix, 264
Thelica Mab. vi, 47; . ix, 158
THELIDOMUS Swains. . ix, 96
Thelidonta Swains, . ix, 96
Themera Mab. ii, 160.
Themera Mab. iv, 155; ix, 327
Themis Garr. viii, 134; ix, 6
Themita Mabilie, . ix, 307
Theobaldi West. . ix, 267
Theodori Anc. . ix, 259
Theodori Phil. ii, 83.
Theodosie Cl. . ix, 249
Thera Hutt. . ix, 30
Thera Let. & Bgt. . ix, 250
THERASIA Hutton, . ix, 15
Therasina Let. iii, 250. .
Therella (Berth) B. . ix, 250
Theresæ Ben. iv, 224; . ix, 331
Thersites Brod. vii, 104; ix, 216
THERSITES Pfr. . ix, 125
Thespesia Mab. iv, 183; ix, 328
Thessalica Bttg. iv, 238; ix, 319
Thessalonica Mouss. . ix, 303
Theta Pfr. . ix, 32
Thetis Pfr. vi, 290; . ix, 112
Thibetica Dh. viii, 208; ix, 206
Thieroti Morg. viii, 133; ix, 4
Thiesseæ Mouss. iii, 24; ix, 249
Thiesseana Kob. iv, 244; ix, 319
Thinophila Bgt. iii, 229.
Thlipsa West. . ix, 337
Tholus W. G. B. iii, 135; ix, 74
Thomasia Moq.-Tand. . ix, 307
Thomasi Pfr. i, 65.
Thomensis Dohrn, ii, 127.
Thomensis Greef. ii, 221.
Thomsoniana Anc. . ix, 76
Thomsoni Cox, . ix, 34
Thomsoni Pfr. vii, 185; ix, 224
Thomsoni Smith, vii, 62; ix, 142
Thoracica Hde. iii, 221; ix, 210

- Thorpeiana* Braz. . . ix, 5
Thoryna Mab. iv, 185; ix, 328
Thuillieri Mab. . . ix, 256
Thusuroi Bgt. . . ix, 336
Thwaitesi Pfr. ii, 118.
Thymorum Alt. iv, 10; ix, 254
Thyroides Say, iii, 152; ix, 77
Thyroidus Say, . . ix, 77
THYROPHORELLA Greef. ii, 221.
Thyreus Bens. ii, 15.
THYSANOPHORA Streb. &
[Pfrr. ix, 54
THYSANOTA Albers, . ix, 207
Tiani Bgt. iii, 227; . ix, 337
Tiara Bk. ii, 73.
Tiara Martyn. . . ix, 189
Tiara Migh. iii, 38; . ix, 27
Tiarella W. & B. iv, 35; ix, 245
Tiberana Mouss. . . ix, 268
Tiberiana Ben. iv, 206; ix, 331
Tiberii Parr. iv, 225.
Tibetica Mlldff. . . ix, 206
Ticaonica Brod. vii, 203; [ix, 227
Tichostoma Pfr. iii, 100; ix, 58
Tickelli Theob. ii, 132, 220.
Tiesenhausenii Gredl. viii, [227; ix, 302
Tietzeana Rolle, . . ix, 112
Tigæensis G.-A. vii, 85; ix, 170
Tigriana Bgt. . . ix, 325
Tigri Gerv. iv, 141; . ix, 325
Tigrina Ch. & Jan. iv, 107; [ix, 302
Tigrinus Semp. i, 173.
Tigris Hedl. viii, 293; ix, 164
Tiloriensis Ang. v, 194; ix, 167
Timandra Hutt. viii, 84; ix, 27
Timida Hombr. & J. ii, 213.
Timorensis Mts. iii, 83; ix, 4
Tineana Ben. iii, 253; ix, 260
Tineiformis Let. & Bgt. ix, 260
Tingitana Pal. iv, 132; ix, 324
Tinostoma Blf. ii, 45.
Tiranoi (Bgt.) Serv. ix, 326
Tirmaniana Anc. viii, 269; [ix, 105
Tirutana G.-A. ii, 66.
Tisemnica Bgt. . . ix, 263
Tissotiana Bgt. . . ix, 260
Titania Hutt. viii, 62; . ix, 9
Titanica Pfr. ii, 31.
Titanodolena Pch. iii, 11; [ix, 234
Tlemcenensis Bgt. iii, 121; [ix, 288
Todarum Blanf. ii, 94.
Tohenica Bgt. iii, 227; ix, 337
Tollini Alb. iii, 108.
Tolosana Bgt. . . ix, 256
Tomasinelliana T. C. vii, 44; [ix, 142, 344
Tomentosa Pfr. iii, 212; ix, 124
Tomsetti Tate, vi, 143; ix, 131
Tomsoni Braz. vi, 175; ix, 134
Tongana Quoy, ii, 218.
Tongana Schm. ii, 49.
Tonkinorum Mab. viii, 120; [ix, 4
Tornata Born, . . ix, 93
Torrefacta C. B. Ad. iii, 7; [ix, 64
Torrefacta Lowe, . . ix, 341
Torresiana H. & J. . ix, 114
Torticolis (LeGuill), T.-C. ix, 113
Tortilabia Less. vi, 294; ix, 113
Tortilis Morel. iii, 125; ix, 83
Tortistylis Mouss. . . ix, 125
Torulus Fér. vi, 189; . ix, 343
Toukriana Bgt. . . ix, 326
Tourannensis Soul. iii, 209; [ix, 205
Tournoueri Crosse, . . ix, 106
Townsendiana Aust. & Nev. [ii, 120.
Townsendiana Lea, iv, 72; [ix, 76
Toxotrema Raf. . . ix, 69
Tracheloides Mke. . ix, 244
TRACHIA Albers, . . ix, 114
Trachia (Bgt.) Serv. . ix, 301
TRACHIOPSIS Pilsbry. . ix, 114
TRACHYCYSTIS Pilsbry, ix, 37
TRACHYSTYLA Pilsbry, ix, 224
Tradita Rve. iii, 48.
Tragomma Held. ii, 10.

- Trailli Pfr. vi, 207; . ix, 104
 Trajectura Cox, iii, 264; ix, 14
 Tranquebarica Fab. ii, 81.
 Tranquilla Cox, iii, 261; ix, 13
 Transarata Mouss. iii, 79; ix, 6
 Transcaucasica Bay. iv, 85;
 [ix, 304
 Transenna Pils. vii, 112; ix, 220
 Transfuga Fag. . ix, 257
 Transiberus Monts. . ix, 328
 Transitsans Bttg. ii, 192.
 Transitsans Sut. viii, 59; . ix, 9
 Transitoria Pfr. . ix, 93
 Translucens Gundl. iii, 96;
 [ix, 58
 Translucens King, . ix, 205
 Translucida Mort. ii, 153.
 Translucida Q. & G. viii, 29;
 [ix, 229
 Transsylvanica Blz. . ix, 275
 Transsylvanica Cless. ii, 143.
 Transsylvanica Haz. . ix, 288
 Transversalis Mss. iii, 210;
 [ix, 205
 Traskii Newc. iv, 71; . ix, 199
 TRAUMATOPHORA Ancy, .
 [ix, 146
 Travancorica Bens. ii, 41.
 Traversensis Leach. . ix, 77
 Traversi Smith, ii, 214; . ix, 16
 Treasuryensis Try., ii, 111.
 Tremata Let. & Bgt. . ix, 256
 Tremeni Melv. & Pons. error for
 trimeni, viii, 135.
 Trenquellionis Grat. iv, 82;
 [ix, 198
 Trepidula Serv. viii, 171; ix, 256
 Triadis Kim. iii, 116; . ix, 288
 Triaria (Friv.) iii, 116; ix, 288
 Trica Paul, . ix, 331
 Tricarinata Blf. ii, 55.
 Tricasterorum Flor. iv, 9; ix, 256
 TRICHEULOTA Pilsbry, ix, 212
 Trichia Hartm. . ix, 273
 Trichocoma Cr. iii, 45; . ix, 36
 TRICHOCHLORITIS Pilsbry,
 [ix, 123
 TRICHODISCINA Martens,
 [ix, 197
 Trichodiscus Streb. . ix, 194
 Trichroa v. Mart. vii, 12; ix, 140
 Trichroa Pils. vii, 182; . ix, 224
 Trichosteiroma M. & P. viii;
 [143; ix, 38
 Trichothroa Bgt. . ix, 302
 Trichotropis Pfr. iv, 53; ix, 209
 Tricolor Marts. iii, 83; . ix, 5
 Tricolor Pfr. vii, 111; . ix, 220
 Tridentata Say, iii, 143; ix, 76
 Tridentina Fér. v, 109; ix, 90
 Tridentula Mill. v, 155; ix, 94
 Tridonia Beck, . ix, 74
 Tridopsis Beck, . ix, 69
 Trifasciata Chemn. ii, 17.
 Trifasciella Beck, . ix, 187
 Triflosa Pfr. iii, 75.
 Trigonophora Lam. . ix, 287
 Trigonostoma Fitz. . ix, 284
 Trigonostoma Pfr. v, 132; ix, 190
 Trigrammephora Orb. iv, 80;
 [ix, 198
 Trihelix Anc. . ix, 289
 Trilamellaris G.-A. . ix, 146
 Trimeni M. & P. viii, 135.
 Tringa Fag. . ix, 256
 Trinitaria Gundl. v, 67; ix, 97
 Trinodis Kim. iii, 116; . ix, 288
 Triodonta d'Orb. v, 152; ix, 94
 Triodontoides Bld. iii, 135;
 [ix, 74
 TRIODOPSIS Raf. . ix, 74
 Triodopsis Auct. Europ. ix, 308
 Triphera Bgt. . ix, 256
 Triplicata Mart. v, 165; ix, 95
 Tripolitana Wood, . ix, 330
 Triptycha Shuttl. iii, 7; ix, 64
 Triscalpta Mart. vi, 8; . ix, 146
 Trisculpta Mlldff. . ix, 223
 Trisinuata Mart. vi, 11; ix, 290
 TRISSEXODON Pils. . ix, 288
 Tristis Pfr. iv, 255; . ix, 318
 Tristrami Pfr. iii, 253; . ix, 260
 Tritonensis LeGuill, ii, 46.
 Tritonensis LeGuill, vii, 88;
 [ix, 141
 Tritonidis Jus. . ix, 256
 Triumphalis Rve. vii, 42; ix, 142
 Trizonalis Grat. v, 93; . ix, 180

- Trizonaloides Brown, v, 94 ;
 [ix, 180
Trizona Rve. . . ix, 300
Trizona Zgl. iv, 108 ; . ix, 301
Trizonella Pils. v, 94 ; . ix, 180
Trobriandensis Hedl. viii,
 [290 ; ix, 142
Trochacea Gredl. viii, 200 ;
 [ix, 170
Trochalia Bens. vii, 88 ; ix, 116
Trochiformis Fér. iii, 79 ; ix, 6
Trochiformis Mont. ii, 173.
Trochilionoides Orb. i, 65.
Trochilus Poir. . . ix, 262
Trochiscus Held. ii, 11.
Trochiscus Held. . . ix, 278
Trochiscus Pfr. ii, 181.
Trochlea Pfr. iv, 30 ; . ix, 262
Trochlearis Andr. . ix, 252
TROCHOCONULUS Kob. ii, 172.
Trochoidalis Roffian, . ix, 307
Trochoidea Brown, . ix, 262
Trochoidea Mlldff. vi, 230 ;
 [ix, 109
Trochoides Desh. . . ix, 140
Trochoides Poir. iv, 27 ; ix, 262
TROCHOMORPHA Albers, ix, 1
Trochomorpha Mlldff. viii,
 [202 ; ix, 170
Trochomorphoides Nev. . ix, 168
TROCHONANINA Mss. ii, 6, 47.
Trochospira Mlldff. . ix, 146
Trochospira Mlldff. . ix, 170
TROCHOZONITES Pfef. ii, 7, 51.
Trochula A. Ad. iv, 59.
TROCHULA Schliit, . ix, 261
Trochulina Morel. ii, 183.
Trochulus Dillw. ii, 173.
Trochulus Hartm. . ix, 262
Trochulus Mlldff. ii, 60.
Trochulus Mlldff. . ix, 170
Trochus Mlldff. viii, 201 ; ix, 170
Trochus Müll. ii, 71.
Trochus Q. & G. . ix, 140
Troglodytes Morel. ii, 128.
Troilus Gld. iii, 92 ; . ix, 6
Trojana Kob. . ix, 320
Troostiana Lea, iii, 131 ; ix, 73
Trophodon Raf. . ix, 69
Tropidocochlis Loc. . ix, 258
Tropidophora Ad. & Rv. ii, 48.
Tropidophora Mab. ii, 190.
Tropidophorus Anc. . ix, 171
TROPIDOMPHALUS Pils. ix, 309
Tropidoptera Ancey, . ix, 36
Tropidotropis Ancey, . ix, 36
Troscheli Pfr. v, 28, . ix, 184
Trotteriana Bens. iii, 103 ;
 [viii, 135
Trucanini Pett. iii, 87 ; . ix, 34
Truentina Masc. iv, 243 ; ix, 319
Trutatiana Fag. . ix, 257
Tryoni Newc. iii, 229 ; . ix, 200
Trypanomphala Pfr. . ix, 200
Tschudiana Ph. iv, 77 ; . ix, 198
Tuba Alb. vi, 258 ; . ix, 120
Tuberculosa Conr. viii, 184 ;
 [ix, 261
Tuber Mouss. iii, 81 ; . ix, 6
Tuckeri Pfr. iv, 65 ; . ix, 114
Tucumanensis Dör. iv, 78 ;
 [ix, 198
Tudiculata Binn. iv, 74 ; ix, 199
Tuffetii Less. vii, 51 ; . ix, 140
Tuguriolum M. & P. viii, 145 ;
 [ix, 38
Tugurium Bens. ii, 109.
Tukanensis Pfr. vii, 132 ; ix, 222
Tularenensis Hemph. . ix, 199
Tullia Gray, ii, 211 ; . ix, 15
Tumescens West, iii, 185 ;
 [ix, 275
Tumens Dh. ii, 28.
Tumens Desh. ii, 72.
Tumida Pfr. v, 8 ; . ix, 67
Tumida Mlldff. . ix, 224
Tumidosa Monts. . ix, 330
Tumidula Marts. ii, 51.
Tumuloides Garr. iii, 70 ; ix, 24
Tumulorum W. & B. iv, 19 ;
 [ix, 258
Tumulus Gld. iii, 91 ; . ix, 6
Tunetana Let. & Bgt. . ix, 234
Tunetana Pfr. iv, 21 ; . ix, 261
Tunicata C. B. Ad. . ix, 67
Turanica Mart. ii, 88.

- Turatii* Parr. . ix, 255
Turbida Küst. . ix, 264
Turbinata Beck, ii, 80.
Turbinata Cafici, . ix, 249
Turbinata Desh. . ix, 140
Turbinata Jan. iii, 234 ; . ix, 249
Turbinata Val. . ix, 141
Turbinata Mor. ii, 22.
Turbinella Hde. . ix, 211
Turbinella Morel. iii, 51 ; ix, 57
Turbiniformis Bens. ii, 52.
Turbiniformis Pfr. iii, 96 ;
 [ix, 58
Turbinoides Brod. vii, 196 ;
 [ix, 227
Turbo Pfr. vii, 197 ; . ix, 227
Turbo Pils. . ix, 211
Turcica Chemn. iv, 22 ; . ix, 261
Turgens Dh. vii, 196 ; . ix, 227
Turgidula Wood, iv, 117.
Turmalis Morel. viii, 144; ix, 39
Turneri Pfr. i, 119 ; . ix, 54
Turricula Bek. . ix, 261
Turricula H. & J. . ix, 24
Turricula Lwe. iv, 33 ; . ix, 242
Turriculata Cox. ii, 179.
Turriculata Woll. . ix, 242
Turriplana Mor. iii, 120 ; ix, 288
Turriss H. Ad. vii, 32 ; . ix, 141
Turriss Semp. viii, 23 ; . ix, 228
Turrita Mart. . ix, 141
Turrita Mlldff. ii, 60.
Turritella H. Ad. ii, 176.
Turritella Parr. iv, 27 ; . ix, 263
Turtoni Flem. iii, 19 ; . ix, 47
Turturina Guirao, . ix, 324
Turturum Gmel. iii, 175.
Tuta Paul. viii, 173 ; . ix, 256
Tutuillæ Cox, ii, 181.
Tuxtlensis Cr. & Fisch. ii, 188.
Twartkoi Serv. . ix, 253
Tylota Westerl. . ix, 331
Typinsana A. & R. . ix, 210
- Uber* Pfr. viii, 41 ; . ix, 230
Udvarica Serv. ii, 159.
Uitenhagensis Kr. iii, 104 ;
 [ix, 37
- Ullepitschi* West, iv, 90 ; ix, 301
Ulostoma Alb. . ix, 69
Ultima Mouss. iii, 14 ; . ix, 234
Umbicula Sh. iv, 21 ; . ix, 258
Umbilicaria LeGuill. ii, 79.
Umbilicaris Brum. iv, 90.
Umblicata Anton, . ix, 165
Umblicata Mont. . ix, 44
Umbilicus Mark, . ix, 47
Umbraculorum Braz. ii, 178.
Umbraculum Pfr. . ix, 9
Umbraticola Aust. ii, 99.
Umbrica Charp. iv, 218, 224 ;
 [ix, 331
Umbrina Pfr. ii, 118.
Umbrosa Partsch. iii, 176 ;
 [ix, 275
Umbrosella Jouss. . ix, 275
Una L. & B. . ix, 250
Uncigera Petit. v, 164 ; . ix, 95
Uncofila Hde. iii, 208 ; ix, 204
Undina Pfr. vii, 103 ; . ix, 215
Undosa Blf. ii, 36.
Undata Lwe. iv, 189 ; . ix, 293
Undulata Fér. v, 72 ; . ix, 99
Undulata Fér. . ix, 27
Undulata Kob. iv, 207 ; ix, 330
Undulata Mich. iv, 206 ; ix, 331
Undulata Q. & G. . ix, 105
Unwini Braz. viii, 106 . ix, 33
Ungeri Zel. . ix, 249
Unguicula Fér. vi, 249 ; ix, 119
Unguiculastra v. Mart. vi,
 [248 ; ix, 119
Unguiculina v. Mart. vi, 244 ;
 [ix, 119
Unguiculus Mor. i, 181.
Unguifera Mouss. iii, 132 ;
 [ix, 74
Ungulina Linn. vi, 243 ; ix, 119
Uniarmata Paul, iv, 220 ;
 [ix, 332
Unica Hde. ii, 217.
Unica Pfr. vii, 189 ; . ix, 225
Unicolor Bttg. . ix, 304
Unicolor Cox, viii, 276 ; ix, 132
Unicolor Pfr. vi, 37 ; . ix, 157
Unicolor West, . ix, 301

- Unicolor ii, 19.
 Unidentata Chemn. vi, 86;
 [ix, 150
 Unidentata Drap. iii, 171;
 [ix, 278
Unidentata Fér. . . ix, 89
Unifasciata DaCosta, iv, 117.
Unifasciata Poir., . . ix, 254
 Unilamellata Grt. iii, 60;
 [ix, 27
 Unilamellata Sm. viii, 91; ix, 28
 Uninodata Gred. viii, 150;
 [ix, 287
Uniplicata Hartm. . . ix, 150
 Unisulcata Mouss. ii, 215.
 Unitæniata Bttg. iv, 88; ix, 300
Unizona Andr. . . ix, 254
Unizonalis H. Ad. . . ix, 212
Unizonalis Lam. ii, 76.
 Unizonata Bgt. ii, 51.
 Upolensis Mouss. ii, 119.
Upsonii Calk. ii, 174.
 Uranus Pfr. ii, 33.
 Urbana Cout. . . ix, 275
 Urbarana Pech. . . ix, 251
 Urmensis Naeg. viii, 237;
 [ix, 333
 Urnula Pfr. i, 128.
 Urquharti Sut. . . ix, 15
 Ursina Pfr. vi, 253; . ix, 120
Ursula Fér. iii, 188.
Urvillei H. & J. . . ix, 135
 Usambarica Crav. iii, 155;
 [ix, 173
 Ussatensis Bgt. . . ix, 256
 Usticensis Calc. iii, 254; ix, 260
 Ustulata Jay, . . ix, 231
Ustulata Lwe. . . ix, 336
Usurpans Furtado, iv, 40;
 [ix, 341
 Usurpata Mss. ii, 47.
 Uter Theob. ii, 80.
 Uticensis (Bgt.) Péch. . ix, 320
 Uticensis Kob. . . ix, 324
 Utillensis Anc. ii, 220.
 Uvida G.-Aust. ii, 56.
 Uvulifera Shutt. iii, 137; ix, 73
 Uzielliana Paul. iv, 220; ix, 332
Uzielli Issel, ii, 157.
Vacans Guppy, ii, 182.
 Vafella L. & B. . . ix, 257
 Vafra West. ii, 191
Vaganensis Hag. . . ix, 257
 Vagienna Poll. . . ix, 273
 Vagoina Gredl. iv, 257; ix, 205
Vahine H. & J. . . ix, 6
 Valcourtiana Bgt. . . ix, 256
 Valdemusana Bgt. . . ix, 325
 Valenciennesii Guill. iii, 93;
 [ix, 6
Valenciennesii Pfr. . . ix, 220
Valenciennii Eyd. . . ix, 222
 Valentini Kob. viii, 239; ix, 319
 Valeria Hutt. viii, 69; . ix, 16
 Valeryana L. & B. . . ix, 250
 Valida C. B. Ad. v, 113; ix, 90
 Validior Mouss. . . ix, 261
 Vallata Hde. viii, 158; ix, 344
 Vallicola Pfr. ii, 94.
 Vallionis Ret. . . ix, 320
 Vallisnieri Stef. iii, 117; ix, 288
 VALLONIA Risso, . . ix, 282
 Valtori Rve. vi, 83; . ix, 154
Valvæformis Nyst. i, 64.
Valverdensis Lwe. . . ix, 327
 Vancouverensis Lea, ii, 205.
 Vannostrandi Bld. iii, 145;
 [ix, 76
 Vanualavæ Cox, ii, 181.
Vargasiana Pfr. . . ix, 239
 Variabilis Dr. iii, 230; ix, 249
 Varians Mke. v, 24; . ix, 184
Varians Risso, . . ix, 252
Varians Ziegl. . . ix, 319
Variata West. . . ix, 249
 Varicosa Pfr. iii, 23; . ix, 27
 Varicosula West. . . ix, 234
 Variecostata Sut. viii, 100;
 [ix, 33
 Variegata Chemn. v, 38.
 Variegata Friv. iii, 235; ix, 249
Variegata Gmel. . . ix, 318
Variegata Humph. ii, 73.
 Variegata Mouss. . . ix, 255
 Variolosa Pfr. ii, 42.

- Varronis* Cantr. . . ix, 300
Vasconica Bgt. ii, 196.
Vatonniana Bgt. iv, 31; ix, 256
Vavauensis Baird, ii, 114.
Vaysseti Marie, i, 113.
Veitchii Newc. iii, 228; ix, 200
Velancia Mab. . . ix, 331
Velascoi Hid. iv, 103; . ix, 256
Velasqueziana Poey, v, 32; [ix, 185
Velata Brod. viii, 12; . ix, 231
Velata H. & J. iii, 61; . ix, 29
Velaviana Bgt. . . ix, 256
Velebitana Klec. . . ix, 302
Vellavorum Bgt. . . ix, 267
Vellicata Forbes, ii, 205.
Velutina Lam. iii, 100; ix, 58
Velutina Sowb. ii, 85.
Velutinata Bk. . . ix, 181
Velutinoides Anton. . . ix, 97
Vendeana Let. . . ix, 275
Vendepéranensis Bgt. . ix, 275
Vendryesiana Gloyne, iii, 139.
Vendryesi Ckll. viii, 263; [ix, 90
Veneriana Let. & Bgt. ix, 263
Venetorum Bgt. iii, 185; ix, 274
Venezuelensis Jouss. viii, [112; ix, 57
Venosa Pse. ii, 116.
Ventiensis (B.) Fag. . ix, 266
Ventricosa Chem. viii, 10; [ix, 228
Ventricosa Drap. iv, 32; ix, 264
Ventricosa Jan. . . ix, 278
Ventricosa Mldff. . . ix, 227
VENTRIDENS Binn. ii, 12, 199.
Ventrosa Auct. . . ix, 264
Ventrosula Pfr. iii, 136; ix, 74
Venulata Pfr. ii, 211; . ix, 15
Venusta Gmel. . . ix, 189
Venusta Mart. ii, 69.
Venusta Mart. . . ix, 320
Venusta Streb. ii, 188.
Venustus Theob. i, 180.
Veprium Bgt. . . ix, 272
Veracruzensis Pfr. ii, 187.
Veranyi Bgt. . . ix, 256
Verecunda Pse. iii, 63; ix, 27
Verecundus Rve. . . ix, 230
Vermetiformis Lwe. . ix, 242
Vermiculata Müll. iv, 128; [ix, 324
Vermiculosa Morel. iv, 149; [ix, 318
Vermiculum Lowe, ii, 144.
Vermiplicata Woll. iv, 178; [ix, 328
Vermis Rve. iv, 60; . ix, 210
Verneui Mab. iv, 161; ix, 327
Vernicosa Kr. i, 129; viii, 135.
Vernoni Sm. viii, 91; ix, 28
Veronica Pfr. iii, 49.
Verreauxii Pfr. i, 169.
Verrilli Anc. . . ix, 200
Verrucosa Reinh. iii, 219; [ix, 169
Verrucosa Monts. viii, 233; [ix, 330
Verrucosus G.-A. i, 183.
Verrucula Pfr. ii, 59.
Versicolor Born. v, 54; ix, 189
Versicolor Mldff. viii, 246; [ix, 225
Verticillata Parr. iv, 27; ix, 263
Verticillata Pse. ii, 113.
Verticillus Fér. ii, 134.
Verticillus Moq. ii, 10.
Vesconis Morel. vi, 31; ix, 157
Vesica Lea, v, 49; . ix, 180
Vesica Pfr. ii, 37.
Vesicalis Lam. . . ix, 152
Vesicula Bens. ii, 87.
Vesperalis Bgt. ii, 173.
Vespertina Morel. iv, 41; ix, 275
Vestalis Parr. iii, 240; . ix, 249
Vesta Pfr. ii, 103.
Vestii Jick. ii, 118.
Vestita Ramb. . . ix, 257
Vesulana Less. . . ix, 302
Vettonica Serv. . . ix, 251
Vetula Gass. iii, 36; . ix, 33
Vetula West. . . ix, 234
Vetusta M. & D. iv, 198; [ix, 293
Vetusta Mouss. . . ix, 327

- Vexans* Dohrn, v, 158; ix, 94
Vexillaris Pfr. vii, 46; . ix, 140
Vibraiana Serv. . . ix, 307
Vicaria Mouss. . . ix, 35
Vicaria West. . . ix, 322
Vicentina Oppenh. . ix, 295
Vicianica Bgt. . . ix, 256
Vicinalis Mouss. iii, 39; ix, 35
Vicina Rm. iii, 188; . ix, 272
Vicinella Hde. . . ix, 210
Victoriæ Cox, vi, 149.
Vidaliana Mor. & Dr. ii, 159.
Vidali Hid. vii, 208; . ix, 228
VIDENA H. & A. Adams, ix, 1
Vidua Blanf. ii, 95.
Vidua West. . . ix, 263
Vieillardi Crosse, i, 116.
Vieta Rm. . . ix, 330
Vigenia Parr. . . ix, 331
Vigens Cox, iii, 263; . ix, 35
Vigiensis Weinl. v, 46; ix, 182
Vilis Pfr. iii, 190.
Ville Bonelli, ii, 157.
Villæ Desh. iii, 198; . ix, 272
Villæ Mort. ii, 156.
Villæ Mühlf. . . ix, 278
Villandrei Gass. i, 119.
Villari Hid. vii, 201; . ix, 227
Villaris Pfr. ii, 105.
Villedaryi Anc. viii, 157; ix, 146
Villersii Malz. iii, 173; ix, 275
Villica Paul. iv, 218; . ix, 331
Villiersii Orb. . . ix, 328
Villipensa Bens. ii, 94.
Villosa Stud. iii, 177; . ix, 275
Villosula Zgl. iii, 176; . ix, 275
Villula Bgt. . . ix, 274
Vimontiana Crosse, ii, 180.
Vincæ Paul. . . ix, 254
Vincentina Cr. iii, 59; . ix, 27
Vincta Val. . . ix, 199
Vindobonensis Fér. iv, 124; [ix, 322
Vinitincta Cox, i, 115; . ix, 35
Vintiensis Bgt. iii, 198.
Vintoni Desh. ii, 133.
Violacea Rossm. . . ix, 325
Viola (Pons.) viii, 234; ix, 330
Vipera Pfr. v, 181; . ix, 166
Viperina Malz. . . ix, 305
Virago Bgt. . . ix, 319
Virens Mart. ii, 28.
Virens Pfr. i, 172.
Virens Pfr. . . ix, 228
Virescens Pfr. iii, 96; . ix, 58
Virgata DaC. . . ix, 249
Virgata Jay, viii, 48; . ix, 231
Virginea Ad. v, 39; . ix, 183
Virginea Anc. . . ix, 191
Virginea Blanc. . . ix, 332
Virginea Lea, viii, 36; . ix, 229
Virginia Morel. ii, 106.
Virgo Brod. vii, 119; . ix, 219
Virgulata Sowb. iii, 77; ix, 6
Virgultorum Bgt. . ix, 252
Viridescens M. & P. viii, [78; ix, 39
Viridiflava Mlldff. . ix, 342
Viridis Desh. vi, 56; . ix, 158
Viridostriata Lea, vii, 178; [ix, 225
Viridula Mke. ii, 153.
Viridula Wallenb. ii, 154.
Virilis Gredl. iv, 259; . ix, 170
Virilis Mouss. iii, 119; . ix, 288
Visanica Fag. . . ix, 251
Visayana Mlldff. . ix, 209
Visgeriana Dohrn, iv, 193; [ix, 294
Vitellina Pfr. ii, 78.
Vitellus Shuttlew. ii, 69, 219.
Vitiensis Mouss. ii, 120.
Vitiensis Pfr. ii, 110.
Vitracea Beck, . . ix, 141
Vitracea Fér. vii, 106; ix, 109
Vitrea Bielz. ii, 142.
Vitrea Bonnet, ii, 48.
Vitrea Brown, ii, 138.
Vitrea Fér. vii, 33; . ix, 141
VITREA Fitz. ii, 10, 137.
Vitrea Mart. . . ix, 143
Vitreola Bgt. ii, 141.
Vitreola Hde. . . ix, 170
Vitrina C. B. Ad. iii, 97; ix, 58
Vitrinæformis Cox, iii, 261.
Vitrina Wagn. i, 64.

- Vitrinella* Beck, ii, 113.
Vitrinina Liard. ii, 121.
VITRINOCONUS Semp. viii, 296.
Vitrinoides Desh. ii, 90.
Vitrinoides Tristr. ii, 187; [ix, 57
Vitrinosa Zgl. . . ix, 267
Vittalacciana Mab. . ix, 305
Vittata A. & R. ii, 19.
Vittata Jan. . . ix, 301
Vittata Müll. iv, 120; . ix, 116
Vittata Rm. iv, 245; . ix, 320
Vivida Hagenm. . . ix, 257
Vocontiana Bgt. . . ix, 275
Volubilis Rve. . . ix, 222
Volutella Gass. i, 113.
Volutella Pfr. ii, 160.
Volvoxis Pfr. . . ix, 73
Vortex Beck, . . ix, 284
Vortex Oken. . . ix, 286
Vortex Pfr. iii, 98; . ix, 57, 58
Vortex West. . . ix, 254
Vorticella H. Ad. iii, 35; ix, 39
Vorticialis Bens. iii, 107; ix, 39
Votiva Crosse, iii, 214; ix, 173
Voyana Newc. ii, 206.
Vukotinovici Hirc. iii, 246; [ix, 252
Vulcanica Lwe. iv, 190; ix, 293
Vulcani G.-Aust. ii, 62.
Vulgaris Parr. iv, 249; ix, 320
Vulgarissima Mouss. iii, 245; [ix, 252
Vulgata Lwe. . . ix, 240
Vulgivaga S. & B. viii, 193; [ix, 209
Vulpis Gredl. vi, 116; . ix, 104
Vultuosa Gld. iii, 144; ix, 76
Vulvivaga error for vulgivaga, [viii, 193; ix, 209
Waandersiana Zoll. ii, 81.
Wagneri Grat. . . ix, 231
Wagneri Pfr. i, 62.
Wagneri Rossm. iv, 136; ix, 324
Waighouensis H. Ad. vii, 43; [ix, 142
Wairarapa Sut. viii, 88; ix, 28
Wairoaensis Sut. . . ix, 15
Walkeri Gray, i, 126.
Walkeri Pons. viii, 149; ix, 288
Wallacei Pfr. ii, 75.
Walleri Braz. vii, 12; . ix, 140
Wallisiana Mouss. iii, 126; [ix, 83
Walteri Bttg. iv, 98; . ix, 300
Waltoni Auct. . . ix, 154
Wanganensis Cox, ii, 124.
Wardiana Lea, ii, 196.
Warnefordi Nev. ii, 125.
Warnieriana Bgt. . ix, 257
Warroensis H. & Muss. viii, [281; ix, 133
Wasatchensis Hemph. viii, [116; ix, 50
Waterhousei Cox, ii, 215.
Watersi Angas, vi, 26; . ix, 156
Watsoniana Woll. iv, 21; [ix, 258
Webbiana Lwe. iv, 200; ix, 294
Webbii Lwe. . . ix, 258
Weberi Kob. viii, 236; ix, 330
Weinkauffiana Crse. ii, 43.
Weldii Ten.-Woods, ii, 217; [ix, 338
Welebitana Stentz, . ix, 272
Wellingtonensis Cox, . ix, 34
Werner Rolle, viii, 236; [ix, 333
Wesselliana Malz. i, 131.
Wesselensis Cox, vi, 170; ix, 134
Westerlundi Bl. iv, 115; ix, 277
Westerlundi Caffci, ii, 196.
Wetherbyi Bld. iii, 152; ix, 77
Weyrichi Schr. iii, 209; ix, 205
Whartoni Cox, vi, 171; ix, 134
Wheatleyi Bld. ii, 162.
Wheatleyi Bld. iii, 151; ix, 77
Whiteleggei Braz. viii, 106; [ix, 33
Whitneyi Newc. ii, 161.
Wilcoxi Cox, ii, 178.
Wilhelmi Pfr. iii, 53; . ix, 341
Wilkinsoni Braz. viii, 105; [ix, 33
Williamsiana Nev. . ix, 322

- Yahunensis Gass. i, 120.
 Yantaiensis C. & D. iii, 149; [ix, 279
 Yatalaensis Cox, vi, 140; ix, 131
 Yatesiana Binn. . ix, 81
 Yatesi Coop. iii, 115; . ix, 81
 Yatesi Pfr. v, 173; . ix, 95
 Ycaunica Mab. . ix, 256
 Yessoensis Reinh. ii, 171.
 Yleobia Bgt. . ix, 319
 Yocotulana Dor. iv, 81; ix, 198
 Yoldii Mörch. . ix, 119
 Youngi Grt. iii, 40; . ix, 35
 Yucatanea Morel. iii, 146; [ix, 74
 Yulei Forbes, vi, 172; . ix, 134
 Yulensis Braz. . ix, 142

 Zaccarensis Kob. viii, 168; [ix, 249
 Zaffarina Terv. iv, 137; ix, 325
 Zaleta Binn. . ix, 77
 Zamboangæ Mts. . ix, 219
 Zanguebarica Crav. iii, 105; [ix, 39
 Zapateri Hid. ii, 157; . ix, 48
 ZAPHYSEMA Pilsbry, . ix, 65
 Zaragozaensis Serv. . ix, 257
 Zaritosa Berthier, iii, 185.
 Zebina Braz. vi, 151; . ix, 133
 Zebra Le Guill. viii, 76; ix, 18
 Zebra Pfr. vi, 275; . ix, 111
 Zebrina Grt. iii, 64; . ix, 27
 Zebrina Ph. iii, 48; . ix, 41
 Zebuensis Brod. vii, 161; ix, 223
 Zeiliana Mts. . ix, 267
 Zelandiæ Gray, ii, 214; ix, 13
 Zelebori Pfr. iv, 83; . ix, 253
 Zelina Cox, vii, 78; . ix, 143
 Zelleri Kob. iv, 138; . ix, 325
 Zelota Mab. iv, 154; . ix, 327
 Zemonicensis Stoss. . ix, 251
 Zenatia Kob. iv, 144; . ix, 325
 Zenobia Gray, . ix, 264
 Zenobia Pfr. viii, 131; . ix, 5
 Zeno Braz. vii, 53; . ix, 142
 Zenonis Gredl. iv, 59; . ix, 207
 Zerguana Hagenm. . ix, 251

 Zeta Pfr. v, 63; . ix, 97
 Zeta Pfr. . ix, 32
 Zeugitana L. & B. viii, 182;
 Zeus Jonas, ii, 32. [ix, 260
 Zhorquinensis Ang. v, 132; [ix, 190
 Ziczac Gld. ii, 210; . ix, 13
 Ziegleri Schm. iv, 109; ix, 303
 Zikaveiensis Hde. ii, 120.
 ZINGIS Mart. ii, 7, 51; viii, 135
 Zinguletta H. & A. Ad. ix, 302
 Zitanensis Let. & Bgt. ix, 336
 Zitanica Let. & Bgt. . ix, 251
 Zitoumica L. & B. . ix, 263
 Zoae Pfr. . ix, 141
 Zodiacus Fér. vi, 259; . ix, 120
 Zollingeriana ii, 20.
 Zollingeri Pfr. iii, 82; . ix, 5
 Zollingeri Mouss. not Pfr. ix, 5
 Zonalis Fér. vi, 284; . ix, 112
 Zonaria Don. . ix, 249
 Zonaria Linn. vi, 277; ix, 111
 Zonaria Penn. . ix, 336
 Zonata Bgt. . ix, 234
 Zonata Bgt. . ix, 318
 Zonata Stud. iv, 92; . ix, 303
 Zonatus Hasselt. . ix, 5
 Zonella Pfr. iv, 110; . ix, 277
 Zonifera Semp. . ix, 229
 Zonifera Sowb. vii, 141; ix, 222
 Zonites Hartm. . ix, 299
 ZONITES Montf. ii, 9, 134.
 Zonites Pfr. ii, 186.
 Zonites piestius Bgt. . ix, 234
 ZONITIDÆ ii, 3; . IX, xxviii
 ZONITOIDES Lehm. ii, 10, 171.
 Zonitomæa Let. ii, 188.
 Zonitomæa Let. viii, 189; ix, 272
 Zonulata Fér. vii, 91; . ix, 125
 Zonula Wood, . ix, 116
 Zonulella Mouss. . ix, 113
 ZONYALINA Mts. ii, 11, 187.
 ZOOGENITES Morse, . ix, 281
 Zorgia Mab. iv, 179; . ix, 328
 Zoroaster Theob. iii, 211; ix, 205
 Zosterophora Pfr. ii, 74.
 Zrmanjæ Brus. . ix, 301
 Zurama Leach, . ix, 282

Dates of Publication of the Parts of Volumes I to IX.

VOLUME I.

- Part 1, pp. 1 to 64; Jan. 12, 1885.
Part 2, pp. 65 to 128; Apr. 20, 1885.
Part 3, pp. 129 to 192; July 3, 1885.
Part 4, pp. 193 to 364; Oct. 12, 1885.

VOLUME II.

- Part 5, pp. 1 to 64; Jan. 23, 1886.
Part 6, pp. 65 to 128; May 3, 1886.
Part 7, pp. 129 to 192; July 28, 1886.
Part 8, pp. 193 to 265; Oct. 24, 1886.

VOLUME III.

- Part 9, pp. 1 to 64; Feb. 19, 1887.
Part 10, pp. 65 to 128; June 8, 1887.
Part 11, pp. 129 to 176; Sept. 2, 1887.
Part 12, pp. 177 to 313; Dec. 10, 1887.

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- Part 13, pp. 1 to 64; Mar. 16, 1888.
Part 14, pp. 65 to 128; July 1, 1888.
Part 15, pp. 129 to 192; Oct. 1, 1888.
Part 16, pp. 193 to 296; Jan. 3, 1889.

VOLUME V.

- Part 17, pp. 1 to 64; Apr. 17, 1889.
Part 18, pp. 65 to 128; July 5, 1889.
Part 19, pp. 129 to 176; Sept. 30, 1889.
Part 20, pp. 177 to 216; Mar. 7, 1890.

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- Part 21, pp. 1 to 64; May 27, 1890.
Part 22, pp. 65 to 128; Aug. 12, 1890..

Part 23, pp. 129 to 192; Dec. 16, 1890.

Part 24, pp. 193 to 324; May, 1, 1891.

VOLUME VII.

Part 25, pp. 1 to 64; Aug. 3, 1891.

Part 26, pp. 65 to 128; Nov. 3, 1891.

Part 27, pp. 129 to 192; Jan. 30, 1892.

Part 28, pp. 193 to 225; Apr. 25, 1892.

VOLUME VIII.

Part 29, pp. 1 to 48; July 25, 1892.

Part 30, pp. 49 to 112; Nov. 25, 1892.

Part 31, pp. 113 to 160; Feb. 25, 1893.

Part 32, pp. 161 to 314; July 1, 1893.

VOLUME IX.

Part 33, pp. 1 to 48; Nov. 16, 1893.

Part 34, pp. 49 to 112; Mar. 19, 1894.

Part 35, pp. 113 to 160; July 27, 1894.

Part 36, pp. 161 to 336; Feb. 2, 1895.

Part 33a, pp. i to xlviii; Feb. 2, 1895.

Index to Helices, April, 1895.

Errata to Volumes III to IX.

I am indebted to the kindness of Messrs. John Ponsonby and G. K. Gude for a large part of the following. Some other corrections also have been indicated in the several volumes.

VOLUME III.

Page 13, For *H. octinilla* read *octinella*.

Page 35, For *aulocospira* read *aulacospira*. It is a *Rhytida*, and identical with *R. multisulcata* Gass.

Page 44, For *corticola* read *corticicola*.

Page 74, *H. brunii* Mörch., is unfigured. Pl. 14, f. 4, represents *H. conulus* Mart.

Page 92, For *H. tavinniensis* read *H. taviuniensis*.

Page 95, For *Pæcilonites* Sandberger, read *Pæcilonites* Boettger.

Page 119, Read after *H. lens*, pl. 24, f. 12-14.

Page 138, For *microformis* Dall, read *microforis* Dall.

Page 148, After *H. elevata* read Pl. 31, figs. 57-59.

Page 158, For *H. fimbriosa* read *fimbriosa*.

Page 208, For *H. lutosa* read *lutuosa*.

Page 219, After *H. hilgendorffi* read Pl. 51, figs. 58, 59.

Page 239, For *H. sitisiensis* read *sitifensis*.

Page 242, For *H. amoricana* read *armoricana*.

VOLUME IV.

Page 17, After *H. meda* read Pl. 3, fig. 30.

Page 17, For *H. florentinæ* read *florentiæ*.

Page 30, For *H. sequentina* read *sequentiana*.

Page 89, For *leseboriana* read *leseburiana*.

Page 88, For *paucici* read *pancici*.

Page 101, After *v. insubrica* read pl. 24, figs. 28, etc.

Page 110, For *H. schaufussi* read *schaufussi*.

Page 110, After *H. zonella*, dele Pl. 48, figs. 92, 93, and read *unfigured*.

Page 116, After *H. lecta*, dele Pl. 32, fig. 39, and read *unfigured*.

Page 127, For *hemprichtii* read *hemprichii*.

Page 132, After *H. tingitana* dele Pl. 64, f. 1-3, and read *unfigured*.

Page 140, For *H. odopacha* read *odopachya*.

Page 142, For *H. dastagui* read *dastugui*.

Page 155, *H. riprochi* read *ripochi*.

Page 177, *H. quadryi* read *gaudryi*.

Page 186, After *H. digna* read Pl. 63, fig. 38.

VOLUME V.

Page 26, For *H. costantior* read *constantior*.

Page 38, Line 17 from top, for *H. fuscolabris* read *fuscocincta*.

Page 41, Top line, for *nemorloides* read *nemoraloides*.

Page 44, Line 12 from top, for *deep narrow color* read *deep maroon color*.

Page 65, Line 17 from top, for *periphery* read *peristome*.

Page 67, After *H. trinitaria* read Pl. 17, figs. 38-40, 42, 43.

VOLUME VI.

- Page 21, After *H. eurychila* read pl. 64, figs. 56, 57.
 Page 23, After *H. stragulum* read pl. 64, figs. 64, 56, 66.
 Page 25, Line 6 from top, read pl. 66, in place of 64.
 Page 64, Line 12 from bottom, read pl. 66, in place of 64.
 Page 64, Line 7 from bottom, read pl. 66, in place of 64.
 Page 65, Line 20 from top, read pl. 66, in place of 64.
 Page 72, After *H. partuliformis* read pl. 42, fig. 29.
 Page 83, For *Waltoni* read *Valtoni*.
 Page 120, For *bathymorphora* read *bathmophora*.
 Page 137, For *mabellei* read *mabillei*.
 Page 171, For *sardilabiata* read *sardalabiata*.
 Page 261, Under *H. beatricis* add locality, *Fly River, New Guinea*.

VOLUME VII.

- Page 11, After *H. dampieri*, dele *Louisiade Archipelag*
 Page 25, For *lacteolata* read *lacteolota*.
 Page 53, Under *H. rangii* Less. read *New Guinea* instead of *N. Zealand*.
 Page 55, Under *H. macgillivrayi*, the reference to Hedley should read Proc. Roy. Soc. Queensland, not N. S. Wales.
 Page 61, Under *H. gurgustii*, read locality Rossel Island (not Russell).
 Page 69, For *leinardiana* read *lienardiana*.
 Page 78, For *cyrena* read *cyrene*. Locality, Ugi, Solomon Is.
 Page 106, For *allisteri* read *allasteri*.
 Page 122, After *H. æruginosa* read Pl. 26, fig. 4.

VOLUME VIII.

- Page 96, After *P. coma* read Vol. ix, pl. 6, f. 57-59.
 Page 97, After *P. tapirina* read Vol. ix, pl. 6, f. 63-65.
 Page 129, After *T. rubens* read pl. 57, figs. 1-3.
 Page 132, After *T. planoconus* read pl. 57, figs. 4-6.
 Page 136, After *P. browningii* read Vol. ix, pl. 10, figs. 8, 9.
 Page 150, Top line, for *supraplicata* read *supracostata*.
 Page 155, After *H. kiowaensis* dele f. 15.
 Page 156, After v. *arkansaensis* add f. 15.
 Page 156, After *P. jovia* read Vol. ix, pl. 40, f. 1-4.

- Page 159, After var. *solaciaca* read Pl. 44, figs. 83, 81.
 Page 168, After *H. zaccarensis* read Pl. 38, figs. 5-7, 11-13.
 Page 169, After *H. breveti* read Pl. 38, figs. 21, 22.
 Page 176, After *H. beadlei* read Pl. 46, figs. 47-49.
 Page 177, After *H. erkellii* v. *discrepans* read Pl. 46, figs. 50, 51.
 Page 199, After *H. scalatella* read Vol. ix, pl. 64, f. 10-12.
 Page 205, Line 13 from bottom, read J. de C., 1887, not 1877.
 Page 206, For *H. constantinæ* read *constantia*.
 Page 221, After *H. gonistoma* read Vol. ix, pl. 29, figs. 6, 7.
 Page 236, After *H. wernerii* read Pl. 28, figs. 88-90.
 Page 238, For *H. mazzulopsis* read *H. subaperta*. Ancey's description appeared June 20; that in Man. Conch., July 1.
 Page 240, After *H. streatori* delete reference to Vol. ix.
 Page 260, For *V. minonection* read *mionecton*.
 Page 263, For localities of *H. coagulum* and *cernua* read *Great Namaqualand*.
 Page 263, After *C. sieversi* read Vol. ix, pl. 22, f. 7, 8.
 Page 273, After *C. tenuitesta* read pl. 58, figs. 16, 17.
 Page 281, After *H. blomfieldi* var. *warroensis*, read Hedley and Musson.
 Page 281, After var. *pallida*, read Hedley and Musson.
 Page 283, After *H. supracostulata* read Vol. ix, pl. 27, f. 11-13.
 Page 295, After *E. dalbertsi* Braz. read Vol. ix, pl. 6, f. 55, 56.
 Page 306, Line 6, read 9-11, *Trochomorpha strubelli*.
 Page 308, Insert under PLATE 37, figs. 43-46, *Charopa albanensis* Cox, after Hedley, Vol. II, p. 209.

VOLUME IX.

Page xviii. Fischer (Journ. de Conchyl., 1890, p. 351) gives the following note on the date of Ferussac's *Tableaux Systématiques des Animaux Mollusques*: "1819, according to Rang; 1821, according to the majority of authors; 1822, according to a note in my copy, and according to the prospectus of the publication."

- Page 6, After *T. abrochroa* Cr., read iii, 91.
 Page 6, For *navagatorum* read *navigatorium*.
 Page 6, Delete *T. prostrata* Pse.
 Page 27, For *E. raratongensis* read *rarotongensis*.
 Page 34, For *E. siliens* Cox read *siliens* Cox.
 Page 38, Add to list, *P. actinotricha* Melv. & Pons. viii, 143.

Page 39, Add to range of *Amphidoxa*, Argentine Republic, Southern Brazil.

Page 52, Add to range of *Pupisoma*, Ceylon.

Page 57, After *T. cæcoides* read Tate, in place of Guppy.

Page 58, For *montetaurica* read *montetaurina*.

Page 64, Add to list of *Sagda*, *S. maxima* Simpson.

Page 93, Add to range of *Isomeria*, Peru.

Page 98, Add under *P. apollo*, the synonym *H. imperatrix* Gundl.

Page 99, Add to range of *Parthena*, Porto Rico.

Page 104, *C. palumba* Souv. is a synonym of *C. saulix* Pfr.; *C. saulix* Reeve (not Pfr.) is a synonym or form of *monochroa* Sowb.

Page 111, Add after *, *Jaw not ribbed*; and after * *, *Jaw ribbed*.

Page 140, For *spendescens* read *splendescens*.

Page 141, Unite under *P. antiqua* all species of that group, and omit *Borneo* from localities.

Page 142, For *diomedes* Bras. read *diomedes* Braz.

Pages 145, 146, Add to list of species, *P. azona* Grell. viii, 158; *P. vallata* Hde. viii, 158; *P. beddomei* Hanley.

Page 147, CORILLA should be dated June, 1855 (not 1858).

Page 167, Add under *S. feisthameli* the synonyms *pointhameli* Alb.-Mart., *serpens* Spix.

Page 170, After *G. pæcilotrochus* read Nachr. '94, p. 114.

Page 173, Line 10, for *Euhaplogona* read *Protogona*.

Page 199, For *dupetithoursi* read *dupetithouarsi*.

Page 204, For *oncopila* read *uncopila*.

Page 204, *E. leprosa* is a synonym of *leprosula*.

Page 205, *E. rubens* and *semenovi* are duplicated in *Eulota* and *Theba*. Where they really belong must be settled by the position of the penis-retractor and form of mucus glands, still unknown.

Pages 208, 209, For *vulvivaga* read *vulgivaga*.

Page 209, For *loufouana* read *lofouana*.

Page 211, *Accedens* Hde. is an error for *acrescens* Hde.

Page 213, Add to Group of *luhuana*, *E. blakeana* Newc.

Page 228, For *senckendorffiana* read *seckendorffiana*.

Page 249, For *modica* Mouss. read *modica* Morel.; see p. 256.

Page 250, 251, From list of *unfig. species* omit *euzina* Cl., *salentina* Bl., *inversa* W., *perroudiana* Loc., *lemoinei* Deb., *armoricana* Bgt.

Pages 256, 257, From list of *unfig. sp.* omit *mendranoi* Serv., *grannonensis* Bgt., *agreabilis* Zgl., *arcuata* Zgl., *bardoensis* Bgt., *codia*

Bgt., *diniensis* Ramb., *lunulata* Kryn., *ramburi* Mab., *danieli* Bgt., *madritensis* Ramb., *djabbarica* Bgt., *hierocontina* W., *monicola* Pal.

Page 260, For *setabulensis* read *setubalensis*.

Page 261, For *lybica* read *libyca*.

Page 272, For *musicola* read *muscicola* Bgt., not Phil. It is a synonym of *erenophila* Pfr.

Page 274, For *melaspinae* read *malaspinae*.

Page 305, For *H. cyrniaca* read *revelierei* Deb. See Journ. Conch., 1867, p. 311.

Page 319, For *leucorum* read *lucorum*.

Page 322, For *nemoralis* Müll. read *nemoralis* Linné.

Page 325, For v. *angustata* Rm. read v. *angustata* Rm.

Page 325, For *H. rereyana* read *rerayana*.

Page 327, For *H. benthencourtiana* read *bethencourtiana*.

Page 327, For *H. riprochi* read *ripochi*.

Synopsis of Families, Subfamilies, Genera and Subgenera of Helices.

NOTE.—The numbers refer to pages of Vol. IX, whereon the several groups are treated. Genera are in Roman, subgenera and sections in *Italic* type. The sequence of groups adopted is from those with simple to those with complex reproductive organs, and represents in a general way the phylogenetic history of the family, the *Protozona* being believed to be the primordial stock of *Helicidae*. The inter-relations of the groups are shown on p. xxi, of Vol. IX. The linear arrangement given below is necessarily unnatural, being interrupted by the interpolation of the *Teleophallogona* and *Macroogona*.

[*Trochomorpha* belongs to the family *Zonitidae*. The position of *Solaropsis*, *Plectopylis*, *Chalepotaxis* and some other groups is quite uncertain.]

Family ENDODONTIDÆ Pilsbry (Vol. ix, p. xxviii).

Group POLYPLACOGNATHA Pils.

1, *Punctum* Morse. 6.

2, *Laoma* Gray, 8.

Phrixgnathus Hutt., 9.

Group HAPLOGONA Pils.

- | | |
|---------------------------------|-----------------------------------|
| 3, Flammulina Mart., 10. | <i>Nesophila</i> Pils., 27. |
| <i>Phacussa</i> Hutt., 12. | <i>Ptychodon</i> Anc., 27. |
| <i>Thalassohelix</i> Pils., 12. | <i>Helenoconcha</i> Pils., 28. |
| <i>Gerontia</i> Hutt., 14. | <i>Brazieria</i> Anc., 29. |
| <i>Allodiscus</i> Pils., 14. | <i>Phenacharopa</i> Pils., 29. |
| <i>Pyrrha</i> Hutt., 15. | <i>Æschrodomus</i> Pils., 30. |
| <i>Therasia</i> Hutt., 15. | <i>Paratrochus</i> Pils., 31. |
| <i>Phenacohelix</i> Sut., 16. | ? <i>Coliolus</i> Tap.-Can., 171. |
| <i>Suteria</i> Pils., 17. | <i>Charopa</i> Alb., 31. |
| <i>Flammulina</i> Mart., 17. | <i>Acanthoptyx</i> Anc., 35. |
| <i>Hedleyoconcha</i> Pils., 18. | <i>Tropidotropis</i> Anc., 36. |
| <i>Monomphalus</i> Anc., 19. | <i>Pterodiscus</i> Pils., 36. |
| <i>Rhytidopsis</i> Anc., 20. | 7, <i>Pyramidula</i> Fitz., 42. |
| <i>Carthæa</i> Hutt., 339. | <i>Pyramidula</i> Fitz., 43. |
| 4, <i>Phasis</i> Alb., 36. | <i>Microconus</i> Streb., 340. |
| <i>Trachycystis</i> Pils., 37. | <i>Patulastra</i> Pfr., 44. |
| ? <i>Sculptaria</i> Pfr., 39. | <i>Planogyra</i> Morse, 45. |
| 5, <i>Amphidoxa</i> Alb., 39. | <i>Gonyodiscus</i> Fitz., 45. |
| <i>Stephanoda</i> Alb., 40. | <i>Lyrodiscus</i> Pils., 341. |
| 6, <i>Endodonta</i> Alb., 20. | <i>Lyrula</i> Woll., 341. |
| <i>Diglyptus</i> Pils. 22. | <i>Patula</i> Held., 48. |
| <i>Libera</i> Garr., 23. | <i>Atlantica</i> Anc., 50. |
| <i>Endodonta</i> Alb., 24. | <i>Helicodiscus</i> Morse, 51. |
| <i>Thaumatodon</i> Pils., 26. | |

Group

- 8, *Pararhytida* Anc., 52.
 Platyrhytida Ckll., 342, 53.

Family HELICIDÆ Pilsbry (vol. ix, p. xxviii).

Group PROTOGONA Pils., xxxii (*Polygyrinæ*).

- | | |
|-----------------------------------|---------------------------------|
| 1, <i>Praticolella</i> Mart., 67. | <i>Ammonitella</i> Coop., 80. |
| 2, <i>Polygyra</i> Say, 68. | 4, <i>Polygyratia</i> Gray, 81. |
| <i>Polygyra</i> Say, 71. | <i>Systrophia</i> Pfr., 83. |
| <i>Triodopsis</i> Raf., 74. | ? <i>Coxia</i> Anc., 83. |
| <i>Stenotrema</i> Raf., 77. | ? <i>Solaropsis</i> Beck, 166. |
| 3, <i>Polygyrella</i> Binn., 78. | 5, <i>Dorcasia</i> Gray, 172. |

Group MACROOGONA Pils., xxxii, (*Acavinæ*).

- | | |
|-----------------------------|------------------------------|
| 6, Stylodonta C. & J., 149. | 11, ? Macrocyclis Beck, 165. |
| 7, Helicophanta Fér., 151. | 12, Pedinogyra Alb., 158. |
| 8, Acavus Montf., 153. | 13, Anoglypta Mart., 159. |
| 9, Pyrochilus Pils., 154. | 14, Caryodes Alb., 161. |
| 10, Ampelita Beck., 155. | 15, Panda Alb., 163. |
- Pæcilostylus* Pils., 158.

Genera incertæ sedis.

- | | |
|---------------------------------|-------------------------------|
| 16, Plectopylis Bens., 143. | 17, Corilla H. & A. Ad., 147. |
| <i>Traumatophora</i> Anc., 146. | |
| <i>Stegodera</i> Mart., 147. | |

Group TELEOPHALLOGONA Pils., xxxii, 84 (*Sagdinæ*).

- | | |
|--------------------------------|-------------------------------|
| 18, Thysanophora Str. & Pffr., | 20, Sagda Beck, 58. |
| [54. | <i>Hyalosagda</i> Mart., 61. |
| 19, Zaphysema Pils., 65. | <i>Odontosagda</i> Mart., 65. |

Group EPIPHALLOGONA Pils., xxxiii, 84 (*Camæninæ*).

- | | |
|---------------------------------|---------------------------------|
| 21, Pleurodonte F. de W., 84. | 24, Planispira Bk., 110. |
| <i>Pleurodonte</i> , 87. | <i>Planispira</i> Bk., 111. |
| <i>Caprinus</i> Montf., 90. | <i>Cristigibba</i> Can., 112. |
| <i>Gonostomopsis</i> Pils., 91. | <i>Angasella</i> Ad., 113. |
| <i>Caraculus</i> Montf., 92. | <i>Trachia</i> Alb., 114. |
| <i>Isomeria</i> Alb., 93. | 25, Chloritis Beck, 117. |
| <i>Labyrinthus</i> Bk., 94. | <i>Sulcobasis</i> Can., 120. |
| <i>Polydontes</i> . | <i>Austrochloritis</i> P., 121. |
| <i>Thelidomus</i> Sw., 96. | <i>Trichochloritis</i> P., 123. |
| <i>Zachrysia</i> Pils., 97. | 26, Albersia H. Ad., 124. |
| <i>Polydontes</i> Montf., 97. | 27, Thersites Pfr., 125. |
| <i>Parthena</i> Alb., 98. | <i>Thersites</i> . |
| <i>Luquillia</i> Cr., 99. | <i>Glyptorhagada</i> P., 129. |
| <i>Eurycratera</i> Bk., 100. | <i>Badistes</i> Gld., 129. |
| 22, Camæna Alb., 101. | <i>Hadra</i> Alb., 131. |
| <i>Phænicobius</i> Mch., 104. | <i>Sphaerospira</i> Mch., 132. |
| <i>Pseudobba</i> Mildf., 105. | <i>Xanthomelon</i> Mart., 134. |
| <i>Camænella</i> Pils., 105. | <i>Rhagada</i> Alb., 135. |
| <i>Neocepolis</i> Pils., 106. | 28, Papuina Mart., 136. |
| 23, Obba Beck, 107. | <i>Dendrotrochus</i> P., 143. |
| <i>Oreobba</i> Pils., 109. | 29, Ganesella Blanf., 168. |
| | ? <i>Coliolus</i> Can. 171. |

Group BELOGONA (v. Iher.) Pils. xxxiii, 173 (*Helicinæ*).

Belogona Euadenia Pils., 175.

- | | |
|---------------------------------------|--------------------------------------|
| 30, <i>Cepolis</i> Montf., 177. | <i>Euhadra</i> Pils., 212. |
| <i>Cepolis</i> Montf., 179. | <i>Mandarina</i> Pils., 214. |
| <i>Jeanneretia</i> Pfr., 180. | 37, <i>Pupisoma</i> Stol., 52. |
| <i>Eurycampta</i> Mart., 180. | 38, <i>Aulacospira</i> Mlldff., 279. |
| <i>Coryda</i> Alb., 181. | <i>Pseudostreptaxis</i> Mlldff. |
| <i>Dialeuca</i> Alb., 182. | 39, <i>Chalepotaxis</i> Anc., 167. |
| <i>Hemitrochus</i> Sw., 183. | 40, <i>Chloræa</i> Alb., 214. |
| <i>Plagioptycha</i> Pfr., 185. | 41, <i>Helicostyla</i> Fér., 216. |
| <i>Cysticopsis</i> Mörch., 186. | <i>Corasia</i> Alb., 219. |
| 31, <i>Polymita</i> Beck, 187. | <i>Crystullopsis</i> Anc., 220. |
| 32, <i>Oxychona</i> Mörch, 189. | <i>Pfeifferia</i> Gray, 221. |
| 33, <i>Lysinoe</i> Ads., 191. | <i>Leytia</i> Pils., 221. |
| 34, <i>Glyptostoma</i> B. & B., 192. | <i>Chromatosphæra</i> Pils., 221. |
| 35, <i>Epiphragmophora</i> Dör., 193. | <i>Calocochlea</i> Hartm., 222. |
| <i>Pilsbrya</i> Anc. | <i>Anixa</i> Pils., 223. |
| <i>Angrandiella</i> Anc. | <i>Trachystyla</i> Pils., 224. |
| <i>Averellia</i> Anc. | <i>Helicostyla</i> Fér., 224. |
| <i>Trichodiscina</i> Mart. | <i>Cochlodryas</i> Mart., 225. |
| <i>Micrarionta</i> Anc. | <i>Orustia</i> Mörch., 225. |
| <i>Helminthoglypta</i> Anc. | <i>Pachysphæra</i> Pils., 226. |
| <i>Monadenia</i> Pils. | <i>Columpica</i> Hartm., 226. |
| 36, <i>Eulota</i> Hartm., 200. | <i>Helicobulinus</i> Brod., 226. |
| <i>Eulota</i> Hartm., 202. | <i>Orthostylus</i> Bk., 227. |
| <i>Armandia</i> Anc., 205. | <i>Hypselostyla</i> Mart., 228. |
| <i>Cathaica</i> Mlldff., 205. | <i>Papustyla</i> Pils., 229. |
| <i>Pseudiberus</i> Anc., 207. | <i>Eudoxus</i> Alb., 229. |
| <i>Platypetasus</i> Pils., 207. | <i>Phengus</i> Alb., 230. |
| <i>Thysanota</i> Alb., 207. | <i>Canistrum</i> Mörch., 230. |
| <i>Plectotropis</i> Mart., 208. | <i>Prochilus</i> Alb., 231. |
| <i>Aegista</i> Alb., 210. | <i>Chrysallis</i> Alb., 231. |
| <i>Coccoglypta</i> Pils., 211. | 42, <i>Leucochroa</i> Beck., 232. |
| <i>Mastigeulota</i> Pils., 211. | <i>Sphincterochila</i> Anc. |
| <i>Tricheulota</i> Pils., 212. | |

Belogona Siphonadenia Pils., 235.

- 43, *Geomitra* Sw., 238.
Plebecula Lwe., 239.
Lemniscia Lwe., 240.
Hispidella Lwe., 240.
Spirorbula Lwe., 240.
Actinella Lwe., 241.
Caseolus Lwe., 242.
Hystericella Lwe.
Discula Lwe.
Disculella Pils.
Heterostoma Hartm., 244.
Geomitra Sw., 244.
- 44, *Helicella* Fér., 245.
Xerocrassa Monts., 247.
Heliomanes Moq., 248.
Helicella Fér., 249.
Xerocampylæa Kob., 253.
Candidula Kob., 253.
Monilearia Mouss., 257.
Jacosta Gray, 258.
Xeroleuca Kob., 260.
Obelus Hartm., 261.
Trochula Schlüt., 261.
Cochlicella Fér., 263.
Theba Risso, 264.
Lejeania Anc., 267.
Platytheba Pils., 268.
- 45, *Hygromia* Risso, 269.
Hygromia, 271.
Monacha Fitz., 271.
Fruticicola Held, 272.
Ciliella Mouss., 275.
Metafruticicola Iher., 276.
Perforatella Schlüt., 277.
Dibothrion Pfr., 278.
Metodontia Mlldff., 279.
- 46, *Acanthinula* Bk., 280.
Zoögenites Mse., 281.
- 47, *Vallonia* Risso, 282.
- 48, *Helicodonta* Fér., 284.
Drepanostoma Porro.
Helicodonta s. s.
Aspasita West.
Trissexodon Pils.
Caracollina Beck.
Klikia Pils., 289.
? *Möellendorffia* Anc., 289.
- 49, *Allognathus* Pils., 290.
- 50, *Leptaxis* Lowe, 291.
Pseudocampylæa Pfr.
Leptaxis s. s.
Lampadia Lwe.
- 51, *Fridolinia* Pils., 294.
Pseudoleptaxis Pils.
- 52, *Dentellocaraculus* Opp., 294.
Prothelidomus Oppenh.
- 53, *Helicigona* Fér., 296.
Helicigona s. s., 298.
Chilostoma Fitz., 299.
Fruticocampylæa Kob., 303.
Tacheocampylæa Pfr., 304.
Arianta Leach, 305.
Elona Ads., 307.
Isognomostoma Fitz., 308.
Tropidomphalus Pils., 309.
Metacampylæa Pils., 310.
Galactochilus Sdb., 310.
Mesodontopsis Pils., 310.
- 54, *Cyrtochilus* Sdb., 311.
- 55, *Helix* Linné, 311.
Euparypha Hartm., 336.
Eremina Pfr., 334.
? *Parachloræa* Sdb., 333.
Lervantina Kob., 333.
Iberus Montf., 328.
Hemicycla Sw., 326.
Otala Schum., 322.
Tachea Leach, 320.
Helicogena Fér., 316.

SECOND SERIES: PULMONATA

MANUAL

OF

CONCHOLOGY

STRUCTURAL AND SYSTEMATIC.

WITH ILLUSTRATIONS OF THE SPECIES.

FOUNDED BY

GEORGE W. TRYON, JR.

CONTINUED BY

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CONSERVATOR OF THE CONCHOLOGICAL SECTION OF THE ACADEMY OF
NATURAL SCIENCES OF PHILADELPHIA.

CLASSIFICATION OF BULIMULIDÆ AND INDEX TO VOLUMES
X, XI, XII, XIII AND XIV.

PHILADELPHIA:

Published by the Conchological Section,

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1902.

This part contains a classification of the Bulimoid snails described in volumes x, xi, xii, xiii and xiv, with an Index to genera and species. It may either be bound with vol. xiv, or as a separate index volume.

All references herein to figures of the anatomy of Bulimi, refer to the plates of vol. xiv.

INTRODUCTION.

Owing in part to the absence of anatomical data, in part to the want of sufficient knowledge to interpret the facts in our possession, a number of groups belonging to the *Helicidæ* were formerly referred to the *Bulimulidæ* or "*Bulimidæ*," by reason of the lengthened and Bulimoid contour of their shells. Investigations made during the progress of the monographs on Bulimi have shown the true relationships of several of these genera.

Family ZONITIDÆ.

Genus CALYCIA H. AD. xiv, p. 20.

The following genera are to be added to the *Helicidæ* enumerated in vol. ix of this series.

Family HELICIDÆ (*sensu Pils.*)

Subfamily CAMÆNINÆ (*Epiphallologona*).

Genus AMPHIDROMUS Albers, 1850.

Man. Conch. xiii, p. 127; xiv, pp. 167, 282. A Bulimoid group of arboreal snails, extending from Indo-China to Timor.

Section *Syndromus* Pils., vol. xiii, p. 184. Same geographic range.

Subgenus BEDDOMEA Nevill, xiv, p. 1. Southern India and Ceylon.

Subgenus PSEUDOPARTULA Pfr., xiv, p. 9. Java, Sumatra and Borneo.

Genus DRAPARNAUDIA Montr. 1859.

Man. Conch. xiv, p. 12. New Caledonia and New Hebrides.

Subfamily HELICINÆ (*Belogona*).

(*Belogona Euadenia*.)

Genus EULOTA Hartm. (Vol. ix, p. 200).

Subgenus DOLICHEULOTA Pils., vol. xiv, p. 18. Formosa.

(*Belogona Siphonadenia*.)

(iii)

Genus CYLINDRUS Fitz.

Family ACAVIDÆ Pilsbry.

Macroogona Pils., Man. Conch. ix. Additional species are described in xiii, pp. 122-126.

Subfamily STROPHOCHILINÆ.

This group differs from the *Bulimulidæ* by the long kidney, absence of a tubular ureter, copious venation of the cardiac side of the lung; the solid, smooth jaw, etc., etc. Suitable description and illustration of the soft anatomy of the group would occupy undue space in the Manual, and will be given elsewhere; but as *Gonyostomus* has been associated hitherto with *Bulimulinæ* it has been thought best to include some account of its anatomy here, in order to fix the position of the group.

Two genera of this subfamily are known, *Strophocheilus* and *Gonyostomus*.

Genus STROPHOCHEILUS Spix.

Man. Conch. x, p. 1. The genus as constituted in vol. x requires some restriction, the group *Thaumastus* proving by its soft anatomy to belong to the family *Bulimulidæ*.

Subgenus STROPHOCHEILUS s. str.

- | | |
|---------------------------------|--------------------------------------|
| S. pudicus Müll., xiv, p. 116. | S. calus Pils., xiv, 119. |
| <i>almeida</i> Spix. | S. unidentatus Sowb., x, 9. |
| S. planidens Mich., x, 7. | S. erythrosoma Pils., x, 10; xiv. |
| S. rhodocheilus Rve., x, 8. | 117. |
| S. pilsbryi v. Iher., xiv, 118. | <i>pudicus</i> Pfr. |
| S. milleri Sowb., x, 8. | S. (?) contortuplicatus Rve., x, 71. |
| v. kronei Iher., xiv, 118. | |
| v. iguapensis Pils., xiv, 119. | |

Subgenus BORUS Alb., 1850.

Man. Conch. x. pp. 10, 194; xiv, p. 120. Distribution, tropical and temperate South America.

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|-------------------------------|-----------------------------|
| S. popelairianus Nyst, x, 13. | S. maximus Sowb., x, 15. |
| v. thammianus Mart., x, 14. | v. kremnoicus Orb., x, 16. |
| v. dohrnianus Mart., x, 14. | S. huascari Tschudi, x, 16. |
| v. connectens Mart., x, 14. | |

- S. santacruzii* Orb., x, 16.
santacruzensis Pfr.
sanctæ crucis Beck.
S. lacunosus Orb., x, 17.
S. mathiusii Orb., x, 17.
matthewsii Beck.
leucostoma Sowb.
mahogani Sowb.
S. durfeldti Dohrn, x, 18.
S. hupeanus Morel., x, 19.
castelnaui Hupé.
S. cacopatus Pfr., x, 20.
S. granulosus Rang, x, 20.
S. yporanganus Iher. & Pils., xiv, 120.
S. valenciennesi Pfr., x, 21.
fulguratus Val.
S. cantagallanus Rang, x, 22.
accelerans Mart.
proximus Sowb.
terrestris Spix.
corrugatus Wagn.
v. *intercedens* Mart., x, 22.
S. gummatum Hid., x, 23.
S. ovatum Müll., x, 24.
hæmastomus Spix.
orum Ads.
Helix ovalis Mawe.
Lymnæa imperialis Lea.
v. *chionostomus* Mörch, x, 25.
S. grandis Mart., x, 26; xiv, 122.
S. iheringi Cless., x, 196; xiv, 122.
proclivis Mart., x, 195.
S. auritus Sowb., x, 26; xiv, 121.
S. oosomus Pils., x, 27.
S. fragilior Iher., xiv, 121.
S. bronni Pfr., x, 28.
browni H. & A. Ads.
v. *pergranulatus* Pils., xiv, 120.
S. paranaguensis Pils. & Iher., xiv, 124.
S. oblongus Müll., x, 29; xiv, 122.
Turbo hæmastomus Gmel.
Helix ovipara Portl. Catal.
B. roseus Montf.
Helix semilineata Mke.
Melania carnatis Perry.
v. *crassus* Alb., x, 30.
v. *albolabiatus* Smith, x, 197.
tobagoensis Pils., x, 30.
albus W. G. B., xiv, 123.
v. *alba* Smith, x, 197.
S. sanctipauli Iher. & Pils., xiv, 123.
sanctæpauli olim.
S. capillaceus Pfr., x, 31.
v. *seneri* Jouss., x, 31.
v. *intertextus* Pils., x, 32; xiv, 123.
S. lorenzianus Doer., xiv, 125.
S. lichtensteini Alb., x, 32.
S. rosaceus King, x, 33.
S. crenulatus Pfr., x, 33.
Bulinus chilensis Sowb.
B. credulatus Nev., xiv, 126.
B. squamulatus C. & J. (?)
S. crenellus Phil., x, 34.
S. pachychilus Pfr., x, 35.
S. bridgesi Pfr., x, 35.
S. lutescens King, x, 36.
nucleus Sowb.
v. *australis* Mart., x, 36.
dorbignyi Doer., xiv, 126.
v. *cordilleræ* Doer., xiv, 125.
S. globosus Mart., x, 37; xiv, 124.

Subgenus *DRYPTUS* Alb., 1860.

Man. Conch. x, p. 37. Distribution, Venezuela and Colombia. The systematic position of this group cannot be regarded as fully settled.

S. moritzianus Pfr., x, 38.

v. *wilsoni* Pils., x, 39.

S. indentatus DaC., xiv, 281.

S. guerini Pfr., x, 39.

S. pardalis Fér., x, 39.

leptochilus Pfr.

astropoides Jonas.

S. marmoratus Dkr., x, 40.

S. venezuelensis Nyst, x, 41.

S. stubeli Mart., x, 42.

S. funcki Nyst, x, 42.

superbus Jonas.

adoptus Rve.

Genus *GONYOSTOMUS* Beck, 1837.

Man. Conch. x, pp. 96, 121.

Shell rimate-umbilicate, fusiform or ovate-conic, rather thin, composed of 5 to $5\frac{1}{2}$ gently convex whorls. Surface finely granose in spiral series. Aperture elliptic or ovate, angular above, rounded or angular below; the peristome evenly, narrowly expanded or reflexed. Outer lip regularly arcuate, without callous projections within. Columellar lip free, inserted high, the columella with a weak, deeply placed fold.

The foot (pl. 53, fig. 35, *G. multicolor*) is coarsely reticulated, the tubercles being large and polygonal at the sides much smaller on the dorsal surface of body and tail, three black stripes run parallel on the back, parted by two slightly wider reddish bands which terminate at the tentacles. The sole shows no trace of longitudinal division.

Kidney much longer than the pericardium, projecting backward. Ureter and secondary ureter open throughout, but represented by a distinctly differentiated band. Reticulation of the lung almost evenly spreading over both intestinal and cardiac sides, the vena cava and pericardial vein each supplied with several large branches (pl. 49, fig. 8, *G. multicolor*, x 2).

Free retractor system as in *Bulimulidæ*, the pharyngeal retractor being shortly connected with the left tentacular band, and the columellar muscle or tail retractor with the right band (pl. 54, fig. 37, *G. turnix*, x 2).

Genitalia (Pl. 51, fig. 16, *G. turnix*, x 2; pl. 52, fig. 26, *G. multicolor*, x 2; fig. 27, vagina of same), much as in *Stroph-ocheilus*. The penis is long, cylindrical and fleshy, bearing the

vas deferens and retractor at its summit. The vagina is long, and continued in a sort of pouch above the entrance of the spermatheca duct (pl. 52, fig. 27). The latter is slender and nearly as long as the oviduct. The ovisperm duct is imbedded in the concave side of the albumen gland nearly to the distal end of the latter.

The intestinal tract is of the usual four-folded type. The jaw is strong, arcuate, solid and smooth, with a slight median projection (pl. 57, fig. 59, *G. turnix*), or highly arched with a strong projection (pl. 57, fig. 67, *G. multicolor*). The radula has the formula 39.1.39 in *G. turnix* (pl. 57, fig. 68). The central and lateral teeth bearing single, broadly rounded cusps. The change to marginal teeth begins about at the 15th tooth, a division of the cusp into mesocone and ectocone gradually ensuing. A few extreme marginals are irregular in shape, as usual. In *G. multicolor* (pl. 57, figs. 65, 66) the formula is about the same, but the cusps are longer and less broadly rounded.

Type *G. goniostoma*. Distribution, southern Brazil.

This genus was formerly considered a subgenus of *Bulimulidæ* subordinate to *Auris*. The examination of alcoholic specimens of two species, received from Dr. H. von Ihering, shows that it has no affinity to *Auris* or other Bulimuline genera, but is a member of the *Strophochilinæ*, closely related to *Strophocheilus*, from which it differs chiefly in the form of the shell. The form of the kidney, absence of any tubular ureter, the pattern of the lung, the solid jaw, unicuspid, median teeth of the radula, in fact the whole anatomy, is Strophocheiline, and widely different from the Bulimuloid genera.

My former treatment of this group is an instructive commentary on the inconclusive nature of purely shell characters. Before I had dissected *Gonyostomus* I thought it a member of the *Bulimulidæ*, while *Thaumastus* I took to be a subgenus of *Strophocheilus*; whereas the anatomy conclusively shows that *Gonyostomus* belongs to the *Strophochilinæ*, and *Thaumastus* is a typical member of the *Bulimulinæ*. And in dealing with both genera I had before me specimens of the shells of nearly every species for study.

The genitalia of *Gonyostomus* present some interesting features. The vas deferens in *G. turnix* adheres to the vagina, upon which it pursues a sinuous course (pl. 51, f. 16). The vagina is plicate within (pl. 52, fig. 27, *G. multicolor*, v, vagina; sp, lower end of the spermatheca duct; o, lower end of the oviduct; s, accessory sac).

It continues upward beyond the entrance of the spermatheca, terminating in a short blind sac. This sac is homologous with the accessory sac at the base of the spermatheca in *Strophocheilus*, and perhaps with the appendiculum of *Panda* and *Pedinogyra*. The lower portion of the ovi-sperm duct is imbedded in the albumen gland as in *Ampelita*. There is no sheath about the base of the penis in *G. turnix*. The lumen of the penis is large, longitudinally plicate, the folds crenulate. No papilla.

In *G. multicolor* the lung is black-pigmented except posteriorly. The spermatheca lies near the inner end of the pericardium.

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|------------------------------------|------------------------------------|
| <i>G. goniostoma</i> Fér., x, 122. | <i>G. turnix</i> Gld., xvi, 133. |
| <i>G. erubescens</i> Swains. | <i>G. multicolor</i> Rang, x, 123. |
| <i>G. hybrida</i> Gld., x, 123. | <i>G. miersii</i> Sowb., x, 124. |
| <i>B. egregius</i> Pfr. | |

Family BULIMULIDÆ.

Shell usually oblong or ovate, rarely columnar, helicoid or partially degenerate and Succinea-like. *Kidney triangular, as short as the pericardium*, with a reflexed ureter, and closed or rarely open secondary or gut ureter. Lung having *a long unbranched pulmonary vein*, the first branch of the pericardial vein sometimes well-developed, a branch of the vena cava lying between them; *the reticulation chiefly confined to the region near the pneumostome* between the last-named branch and the rectum, *and the tract between the pulmonary vein and the last fold of the gut*. *Jaw made up of vertical or converging plates* conrescent except at their outer and usually imbricating margins (rarely completely united, and smooth). Radula of the ordinary Helicid type or variously specialized. Intestine of the usual four-folded type. In the free retractor muscle system the right ocular band arises from the face of the columellar muscle and the left ocular band is united for a greater or less distance with the pharyngeal retractor muscle.

While related to the *Helicidæ*, snails of this family are well characterized by the triangular kidney, not exceeding the pericardium in length. The jaw, lung and shell are also to a less extent characteristic. The *Acavidæ* and especially the *Strophochilinæ* are likewise allied to *Bulimulidæ*, but in these groups the kidney is oblong, prolonged backward, the ureter is imperfect or wanting, the jaw solid, the pattern of lung venation diverse, and the nepionic shell larger.

Those *Helicidæ* having a Bulimoid shell, such as *Amphidromus*,

Draparnaudia, *Helicostyla*, etc., differ from all *Bulimulidæ* in important features of the pallial organs, genitalia, etc. The same is true of the *Partulidæ* and *Buliminidæ*, groups closely imitating *Bulimulidæ* in the form of the shell.

All the subfamilies and a large majority of the genera are South American. Two genera, *Bulimulus* and *Drymæus*, belonging to the most primitive subfamily of the group, *Bulimulinæ*, extend into the West Indies and North America; and two others, *Bothriembryon* and *Placostylus*, occur in Australasia, giving testimony to the former existence of an Antarctic land connecting the austral continents of the two hemispheres. The other subfamilies are more specialized, and confined to middle and South America. All *Odontostominæ* are South American. The *Orthalicinæ* inhabit tropical South America, with two genera, *Oxystyla* and *Liguus*, in the Antilles, Mexico and Southern Florida. The subfamily *Amphibuliminæ* has the same distribution, two genera being Antillean and Mexican, two South American.

The past history of the *Bulimulidæ* is still most obscure. The numerous modifications of the group, and its omnipresence in South America lead us to believe it an old group there, and probably it arose in that region. Its advent in continental North America has obviously been a recent incursion from the South, and the Australasian groups also are emigrants from South America. But while its chief characteristics must have been well established in Cretaceous or Jurassic times, there is yet no trace of *Bulimulidæ* in Africa. This is somewhat remarkable because a former land connection with Africa through the mid-Atlantic, as claimed by Koken and others, is emphatically proclaimed by the *Streptaxidæ*, *Achatinidæ* (*Neobeliscus*, etc.), *Ampullariidæ*, freshwater fishes, etc., of South America. This is altogether independent of the problematic connection of South Africa and Antarctica, claimed by certain naturalists, and supported to some extent by the dominance of *Endodontidæ* of Austral types in the Cape region and St. Helena.

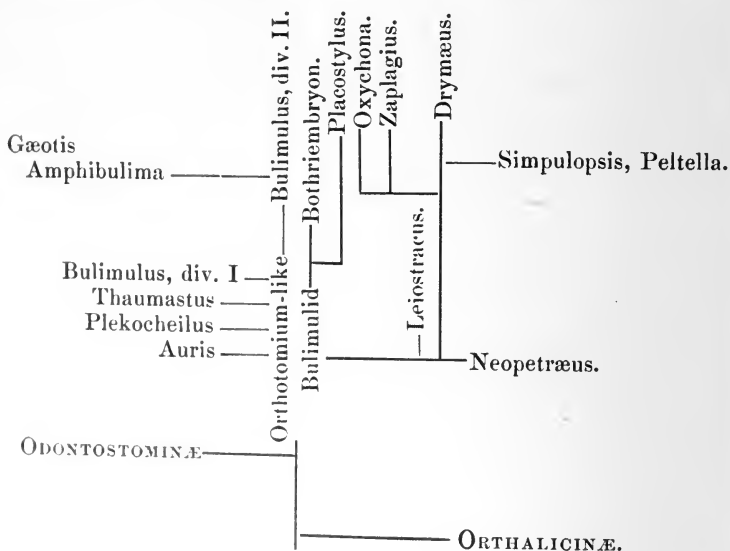
Classification of Bulimulidæ.

The family may be divided into four subfamilies, as follows :

- I. BULIMULINÆ. Shell usually perforate or umbilicate, usually ovate, rarely cylindrical or Helicoid; generally rather small, the aperture toothless. Jaw with vertical or converging plaits. Teeth of the normal Helicid type or variously modified. Genitalia without accessory organs.

- II. ODONTOSTOMINÆ. Shell varying from fusiform to Helicoid. Aperture usually obstructed by internal lamellæ, folds or teeth. Jaw plaited or solid. Dentition Helicoid. Genitalia simple.
- III. ORTHALICINÆ. Shell ovate-conic or oblong, imperforate, with solid axis, usually rather large and strikingly colored, the aperture toothless, sometimes with a columellar fold. Jaw strong, with rather few, wide plaits. Teeth in V shaped rows, bearing single broad, gouge-shaped cusps, the median teeth sometimes lance-shaped. Penis provided with an accessory gland or appendix.
- IV. AMPHIBULIMINÆ. Shell more or less degenerate, globose, oblong, *Succinea*-shaped or *Haliotis*-shaped, always thin and mainly cuticular. Jaw very delicate and highly arched, composed of many close, converging plaits. Radula variously specialized, the cusps large. Genitalia simple.

With the exception of the last subfamily, these groups seem to be natural. The main lines of generic affinity, and approximate phylogeny, may then be represented by the accompanying diagram. The relationships of the genera of *Orthalicinæ* to one another have been considered elsewhere (vol. xii, p. 100), those of the genera of *Odontostominæ* in this volume.



Artificial key to genera of Bulimulidæ, by shell characters.

The *Amphibulimæ* (see above) are not included in this key.

Shell Helicoid or trochiform, capable of standing more or less upright upon the base.

- a. Aperture conspicuously contracted by teeth or folds.
 - b. Aperture turning upward; shell biconvex, mottled.

Anostoma, xiv, 109.
 - b¹. Aperture oblique, shell transversely oval or trochiform.

Tomigerus, xiv, 105.
- a¹. Aperture toothless.
 - b. Apical whorls most minutely, evenly grated (as in pl. 15, f. 31); not umbilicate.
 - c. Last whorl distorted; basal lip advanced.

Zaplagius, xi, 185.
 - c¹. Last whorl normal; shell trochiform. *Oxychona*, xi, 181.
 - b¹. Apical whorls not so sculptured; shell earthy, dull and opaque, openly umbilicate.
 - c. Aperture angular, oblique, the lip simple, discontinuous.

Platybostryx, x, 129.
 - c¹. Aperture subhorizontal, the lip flaring, continuous.

Xenothauma, xiv, 134.

Shell ovate, oblong or pillar-shaped, "Bulimoid."

- a. Apical whorls smooth.
 - b. Lip reflexed, often conspicuously thickened; shell usually solid and rather large.
 - c. Aperture angular below, or with sinuous lip; or the lip bears a callous flange.

Auris, x, 95.
 - c¹. Aperture broadly rounded below, *Plekocheilus*, x, 62.

Porphyrobaphe, xii, 149.
 - b¹. Lip reflexed; aperture oblong with *parallel* margins; size small.

Anctus, xiv, 36.
 - b². Lip acute, not at all expanded; shell rather large, wholly imperforate, the columellar lip completely adnate; often conspicuously colored. *Oxystyla*, xii, 101. *Liguus*, xii, 160.
 - b³. Lip acute and simple or expanded; shells of moderate or small size, usually perforate or rimate. *Bulimulus*, division I, x, 127. *Neopetræus*, in part, xi, 163. *Leiostracus*, xii, 90.

- a*¹. Apical whorls most minutely, evenly cancellate, as in pl. 15, fig. 31, neither spiral nor vertical sculpture predominating; or in other words, with minute pits in spiral and straight vertical series.
- b*. Shell strong, the peristome thick, with strong callous flanges within lip and columella; spire short. *Otostomus*, x, 107.
- b*¹. Shell elongate, the aperture having teeth, or angular below. *Odontostomus*, xiv, 38.
- b*². Aperture without teeth or folds; shell rather thin.
- c*. Base obliquely truncate. *Zaplagius*, xi, 185.
- c*¹. Base tapering, rarely angular; lip varying from unexpanded to reflexed. *Drymæus*, xi, 191.
- a*². Apical whorls with straight vertical riblets.
- b*. Aperture provided with teeth or folds. *Odontostomus*, in part, xiv, p. 38.
- b*¹. Aperture ovate, without teeth.
- c*. Intervals between the apical riblets conspicuously striate spirally. *Neopetraeus*, xi, 163.
- c*¹. Intervals smooth or weakly striate spirally. *Bulimulus*, division III, xi, 83; and *Bothriembryon*, in part, xiii, p. 1.
- a*³. Apical whorls sculptured with waved, irregular or dislocated wrinkles, sometimes forming a net or mesh pattern, or pitted in the pattern of a thimble.
- b*. Aperture with several pliciform teeth or folds. *Odontostomus*, in part, xiv, p. 93.
- b*¹. Aperture with obtuse teeth, or a callus on the parietal wall defining a posterior groove; whorls $4\frac{1}{2}$ to $5\frac{1}{2}$. *Hyperaulax*, xiv, p. 102.
- b*². Aperture ovate, without teeth or posterior groove.
- c*. American genera.
- d*. Wholly imperforate, large, elaborately variegated, apex conspicuously thimble-pitted. *Orthalicus*, xii, 186.
- d*¹. Usually rimate or umbilicate; rather large, brown or marked with brown.
- e*. Shell dappled or zigzag-streaked. *Plekocheilus*, x, 62.
- e*¹. Shell streaked, banded or unicolored. *Thaumastus*, x, 43.

- d*². Perforate, rimate or umbilicate, smaller ; plain, streaked or banded.

Bulimulus, division II, xi, p. 1.

- c*¹. Australasian genera.

- d*. Auriculoid, the lip thickened, expanded or reflexed. *Placostylus*, xiii, 19.

- d*¹. *Bulimulus*-like, the lip simple.

Bothriembryon, xiii, 1.

- a*⁴. Apical whorls spirally striate ; aperture toothed.

Macrodontes, xiv, 29.

Subfamily I. BULIMULINÆ.

The numerous genera of this subfamily may be classified provisionally thus :—

1. *Radula with teeth of the normal or unspecialized Helicid type.*

(American genera.)

- a*. Shell rather large, ovate or oblong.

- b*. Lip conspicuously calloused or with a callous flange, or having the aperture distorted. *Auris*.

- b*¹. Aperture ovate, the lip without calluses.

- c*. Ovate, the shell dappled, maculate or zigzag striped, *Plekocheilus*.

- c*¹. Oblong, streaked or with a few wide bands; nepionic shell rather large and sculptured. *Thaumastus*.

- a*¹. Shell much depressed, with crater-like umbilicus, subhorizontal aperture and continuous flaring peristome. *Xenothauma*.

- a*². Shell *ovate*, pillar-shaped or *Helicoid*, plain, banded or streaked, the aperture with simple or expanded peristome. *Bulimulus*.

(Australasian genera.)

- a*. Shell rather thin, *Bulimulus*-like, the peristome simple. Duct of the spermatheca long. *Bothriembryon*.

- a*. Shell auriculoid, the peristome reflexed or expanded, generally much thickened and bright colored. Duct of the spermatheca short. *Placostylus*.

2. *Radula with variously specialized teeth, unlike the ordinary Helicid type. Jaw very thin and flexible.* (All American.)

- a*. Shell ovate or oblong, usually with a peculiar color-pattern of oblique streaks ; the apical whorls sculptured with vertical riblets and finer, lower, spiral striæ, sometimes smooth. Rows of teeth

only moderately curved, the teeth of the median portion of the radula having single, exceedingly long, oblique, blunt or emarginate cusps. *Neopetræus*.

a¹. Apical whorls of the shell sculptured with an exceedingly fine, even grating, formed by minute pits regularly arranged in spiral and vertical series (as in pl. 15, fig. 31).

b. Periphery of shell angular, or base obliquely truncate or flattened; teeth of the median portion of radula having enormously expanded, rounded cusps (entocone and mesocone), and minute, spur-like, basal ectocones; the transverse rows V-shaped, running obliquely *backward* from the middle.

c. Shell trochiform, smooth, regular. Plaits of the jaw vertical and parallel. No entocone appearing on the teeth. *Oxychona*.

c¹. Shell with conic spire, the last whorl running upward, or obliquely truncate below. Jaw high-arched, with narrow converging plaits. Entocone conspicuous on the outer lateral and marginal teeth. *Zaplagius*.

b¹. Shell ovate or oblong. Teeth of the radula excessively numerous, with indistinct basal-plates, arranged in variously curved rows, but running obliquely *forward* on each side of the rhachis; all the lateral teeth of a peculiar tricuspid form.

Drymæus.

a². Apex of shell nearly smooth, but usually showing some low irregular longitudinal wrinkles, and faint, fine, spiral striæ. Radula with comparatively few teeth in a transverse row, the rows running a little backward from the rhachis. Lateral teeth having a broad, rounded main cusp and a well-developed ectocone, the marginal teeth much as in *Drymæus*. *Leiostracus*.

Genus AURIS Spix.

Manual x, p. 95. Type *A. melastoma*. *Pachyotus* of many authors.

Large, usually pale-colored *Bulimulidæ*, with the apex smooth, the peristome reflexed and generally bearing a flange or callosity upon the outer lip.

The genital system, jaw and teeth, present no well-marked or diagnostic characters differentiating this group from *Plekocheilus* or *Bulimulus*. It rests upon conchologic peculiarities.

Subgenus AURIS s. str.

The anatomy of *A. bilabiata* and *A. egregia* has been examined by Semper. There is a rather broad and long mantle-lobe extending along the whole left mantle-edge. The kidney is short, hardly longer than the pericardium; secondary ureter closed. The venation of the lung is confined to the neighborhood of the pneumostome.

The genital system (pl. 50, fig. 13, *A. egregia*, after Semper) is simple, the penis with terminal retractor and no papilla. At its base there is a circular muscle, embracing also the vas deferens, as in many *Bulimulus*. The small spermatheca is borne upon a long duct.

The jaw of *bilabiata* is composed of 13 unequal, broad, flat ribs, hardly projecting below. In *egregia* there is a very wide, smooth-edged median plait, with two broad ribs on each side, not produced on the cutting edge.

The radula has 61–63 teeth in *bilabiata*, 65–67 in *egregia*, the transverse rows being slightly angular in the middle. The middle tooth is tricuspid, median cusp wide; the laterals have a small ectocone and obtuse mesocone.

The jaw in this group is in a transition state from the plaited to the smooth type. The genitalia and teeth offer no differences of importance from those of *Eudolichotis*.

- | | |
|---------------------------------|---------------------------------|
| A. bilabiata B. & S., x, 99. | A. icterostoma Mart., xiv, 132. |
| <i>Helix maximiliana</i> Fér. | A. chrysostoma Mor., x, 103. |
| var. melanostoma Mor., x, | var. swainsoni Pfr., x, 104. |
| 101. | A. bernardii Pfr., x, 105. |
| A. egregia Jay, x, 101. | A. illheocola Mor., x, 106. |
| var. nigrilabris Pils., x, 102. | |
| A. melastoma Sw., x, 102. | |
| <i>B. melanostomus</i> Dh. | |
| <i>B. struthiolaris</i> Mke. | |
| var. brachyplax Pils., x, 103. | |

Subgenus (?) OTOSTOMUS Beck, 1837.

Manual, x, p. 107.

The apex in this group is exactly like that of *Drymæus* and of the sections of *Odontostomus* grouping around the typical subgenus. Whether the group belongs to *Auris*, or is a distinct genus near the

Zaplagius group of *Drymæus*, will depend upon the soft anatomy; but I think likely that an examination of the jaw and teeth will show the latter location to be near the truth.

A. signata Spix, x, 107.

Province of Bahia, Brazil.

Auris vittata Spix.

Subgenus *EUDOLICHOTIS* Pilsbry, 1896.

Man. Conch., x, pp. 98, 108. Type *A. distorta*.

The mantle of *A. distorta* has a very small anterior and two larger, widely separated left lobes. The kidney is even shorter than the pericardium. The genital system (pl. 50, fig. 7, after Semper) is simple, the long penis prolonged beyond the insertion of the vas deferens, with terminal retractor; duct of the spermatheca long.

The jaw of *A. distorta* has 35 plaits, the edges of which are hardly free; 5 or 6 median plaits converge and are coalescent, only the outer reaching the lower margin (*Semper*). That of *A. aurissciuri* (pl. 50, fig. 11, after Pace) is similar but with less converging and with fewer plaits. It is like the jaw of *Bulimulus*. The radula of *A. distorta* has 100-108 teeth in the slightly V-shaped rows. The median tooth has a long lanceolate cusp; first lateral tooth is similar with a small ectocone, the rest having more rounded cusps and larger ectocones (pl. 50, fig. 14, a central with 1st, 2d, 17th and 25th teeth, after Semper).

A. distorta Brug., x, 109.

var. *sublævis* Pils., x, 111.

var. *gracilis* Pils., x, 111.

var. *guaiensis* Jouss., x, 111.

var. *bisuturalis* Pils., x, 112.

A. aurissciuri Gp., x, 112.

B. aegotis Pfr.

A. glabra Gm., x, 113.

Voluta auris Judæ Meusch.,
xiv, 133.

H. auris-caprinus Fér.

P. caprinus Bk.

Pupa auris silenii Gray.

Auricula silenii Lam.

A. glabra Gmel.

Pelek. undulatus Bk.

Bul. aegotis Mke.

var. *grenadensis* Gp., x, 114.

A. lacerta Pfr., x, 115.

A. sinuata Alb., x, 116.

A. euryomphala Jon., x, 116.

B. otostomus Pfr.

A. perdix Pfr., x, 118.

A. dillwyniana Pfr., x, 118.

A. midas Alb., x, 119.

var. *spectrum* Alb., x, 119.

A. hauxwelli Crosse, x, 120.

Genus PLEKOCHAILUS Guilding, 1828.

Man. Conch. x, p. 62.

Shell ovate, usually solid and opaque and zigzag-streaked or dappled with brown. Aperture large, ovate, the peristome expanded, reflexed or blunt, columella bearing a fold, or simple.

There are two small, well-separated frontal lobes on the left side of the mantle. Kidney (of *P. blainvillanus*) very short, triangular, not projecting beyond the pericardium.

Genitalia (*P. blainvillanus*, pl. 50, fig. 3, after Semper): Atrium very short; penis moderately long, continued in a long epiphallus which terminates in the vas deferens and a long flagellum; "retractor muscle inserted about the middle." Vagina short and wide. Spermatheca globular, on a very long duct, as long as the oviduct. (The penis is shown exerted in the figure). Jaw arcuate, composed of numerous delicate plaits, 41 in *P. blainvillanus* (pl. 50, fig. 4, after Schako), about 60 in *P. aulacostylus*.

Radula broad, the rows of teeth widely V-shaped (pl. 50, fig. 12, *P. blainvillanus*), composed of 62,1,62 x 110 teeth (*blainvillanus*, pl. 50, figs. 5, 6). In this species the basal-plates are longer than the cusps; central tooth with a stout middle cusp, side cusps small; laterals similar but with no inner cusp; marginals irregularly denticulate. In *P. aurissileni* and *P. aulacostylus* (pl. 50, figs. 9, 10, after Binney) the mesocones are long and acute, reaching beyond the basal-plate; in the former the side-cusps are sub-obsolete, in the latter well developed.

Type, *P. aurissileni* (Born).

Distribution: Northwestern South America, St. Vincent and St. Lucia.

My knowledge of the soft anatomy of this genus is from the work of Semper, Binney and Schako. It agrees in all respects with *Bulimulus* except that Semper states that there is a flagellum on the penis. This seems to me very doubtful. The structure he figures may rather be the retractor muscle of the penis. The rank of *Plekocheilus* as a genus rests upon its conchological peculiarities.

Section *Plekocheilus* s. str.

Man. Conch., x, p. 64.

Shell wrinkled or malleate, the spire costulate.

- P. aurissileni* Born, x, 65. *P. blainvillaeus* Pfr., x, 67.
 Auricula caprella Lam. var. *loveni* Pfr., x, 67.
 Carychium undulatum Leach. *P. lugubris* Dkr., x, 68.
 Plekocheilus sileni Beck. *P. appuni* Dkr., x, 68.
P. fulminans Nyst, x, 66.
 Bulimus bellulus Jonas.
 var. *linterae* Sowb., x, 67.

Section *Eurytus* Albers, 1850.

Man. Conch., x, p. 69. Type *P. pintadinus* (Orb.).
 Shell granose or striate, rarely almost smooth.

Group of *P. speciosus*.

- P. speciosus* Pfr., x, 70. *P. guentheri* Sowb., xiv, 129.
P. plectostylus Pfr., x, 70; xiv, *B. guildingi* Dohrn, x, 71,
 129. preoc.

Group of *P. aulacostylus*.

- P. aulacostylus* Pfr., x, 72. St. Lucia.
 B. lentiginosus Redf.

Group of *P. coloratus*.

- P. roseolabrum* Sm., x, 73. *P. corticosus* Sowb., x, 76.
P. eros Angas, x, 74. *P. cardinalis* Pfr., x, 77.
P. coloratus Nyst, x, 74, 198; *P. tetensi* Dkr., x, 77.
 xiv, 129. *P. couturesi* Anc., xiv, 131.
 var. *lamareckianus* Pfr., x, 75. *P. pulicarius* Rve, x, 78.
 var. *ampullaroides* Mss., x, *B. glandiformis*, Pfr.
 75. *P. glandiformis* Lea, x, 78.
 var. *subplicatus* Pfr., xiv, 130. *P. mabiliei* Crosse, x, 79; xiv, 127.
P. gibbonius Lea, x, 75. *P. subglandiformis* Mss., x, 80.
 B. gibboreus, Pfr.-Cless., xiv, *P. corydon* Crosse, x, 80.
 127. *P. phoebus* Pfr., x, 81.
P. doliarius DaC., xiv, 130. *P. taquinensis* Pfr., x, 81.
P. episcopalis Pfr., x, 76.

Group of P. succinoides.

- P. cathcartiæ* Rve., x, 82. *P. succinoides* Pet., x, 84; xiv, 128.
P. (?) victor Pfr., x, 82. *B. succineoides* Mart.
P. jucundus Pfr., x, 82. *Succinea bulimoides* Pfr.
P. quadricolor Pfr., x, 83. *B. latilabris* Pfr.
P. dalmasi Dautz., xiv, 128. *P. calliostoma* Dohrn, x, 85.
P. argenteus Jouss., xiv, 128.
P. veranyi Pfr., x, 83.
 var. *scytodes* Pfr., x, 84.
 syntodes Ads., x, 199.

Group of P. castaneus.

- P. castaneus* Pfr., x, 85; xiv, 131. *P. jimenezi* Hid., x, 86, 199.
P. elaeodes Pfr., x, 86. *B. gibbonius* Hid. olim.
P. aristæus Crosse, x, 88, 199.

Group of P. taylorianus.

- P. piperitus* Sowb., x, 89. *P. superstriatus* Sowb., x, 91.
 P. pulicarius Bk., xiv, 132. var. *prodeflexus* Pils., x, 91.
P. piperatoides Pils., xiv, 132. *P. aureonitens* Mill., x, 91.
P. pseudopiperatus Mor., x, 89. *P. tricolor* Pfr., x, 87; xiv, 131.
P. taylorianus Rve., x, 90; xiv, var. *semipictus* Hid., x, 87.
 132. ? *Simpulopsis fulgurata* Mill.,
 E. taylorioides Mill. xii, 227.

Group of P. floccosus.

- P. floccosus* Spix, x, 92. *P. onca* Orb., x, 93.
P. lacrimosus Heimb., x, 199. *B. onza* Alb.
P. pintadinus Orb., x, 93. *P. lynciculus* D. & H., x, 94.
 Helix pentudina Orb. *P. semperi* Dohrn, x, 94.

Genus THAUMASTUS Albers, 1860.

Thaumastus ALB., as restricted by Pilsbry, Man. Conch. x, p. 43, type *T. hartwegi* Pfr.—*Orphnus* ALB., preoc, type *B. taunaisii*.—*Orphaicus* Schaufuss, in Paetel's Catal. 1864, p. 14, proposed as a substitute for *Orphnus*.—*Tatutor* JOUSS., 1887, type *T. tatutor*.

Shell rather large, narrowly umbilicate or imperforate, long-ovate with lengthened spire and blunt apex; moderately solid, opaque, usually dark, streaked, and generally having a light peripheral band. Neponic whorls $2\frac{1}{2}$ to 3, sculptured with fine vertical waved or inter-

rupted wrinkles, or thimble-pitted by regularly anastomosing wrinkles. Aperture less than half the shell's length, ovate, the *outer lip obtuse*, not expanded or but slightly so. Columellar lip reflexed, usually adnate, the short columella with a weak fold or none.

Anatomy known from a specimen of *T. magnificus* from Piquete, Sao Paulo, Brazil, sent by Dr. H. von Ihering. The long lung is densely veined anteriorly, and posteriorly between the kidney and intestine (pl. 49, fig. 9, nat. size. The preparation figured has been extensively torn, as indicated). The kidney is triangular and as long as the pericardium. The secondary ureter is a closed tube throughout.

The genital system (pl. 51, fig. 19, nat size), is Bulimuline. The penis is enlarged in the middle (fig. 17), having very thick, muscular walls and a small lumen (*c*). It is contracted above, plicate within, and receives the vas deferens some distance below the apex (see fig. 17). The retractor muscle is terminal. The base is encircled by a sheath, within which a loop of the vas deferens descends (fig. 18). The vagina is short, plicate within. The duct of the spermatheca is very long, and becomes abruptly narrower in the middle (pl. 51, fig. 21); its lumen has finely plicate walls.

The jaw (pl. 57, fig. 60) is composed of about a dozen broad flat plaits, well consolidated.

The radula has 44, 1, 44 teeth (pl. 57, fig. 61). The centrals are tricuspid, laterals and marginal teeth bicuspid, of the ordinary Helicid type commonly occurring in *Bulimulus*. The splitting of the ectocone of tooth 18, figured, is somewhat abnormal.

In *T. foveolatus* Binney found the jaw with over 50 delicate ribs, teeth 34, 1, 34, without side cusps on centrals and laterals.

Distribution, southern Brazil and Bolivia to the head waters of the Amazon in Peru and Ecuador.

I formerly considered this group a subgenus of *Strophocheilus*, on account of its comparatively large nepionic shell; but the anatomy of *T. taunaisii* var. *magnificus* shows *Thaumastus* to belong near *Bulimulus*, *Auris* and *Plekocheilus*. It has nothing to do with *Strophocheilus*. The sculpture of the apex repeats patterns occurring in *Bulimulus*. The teeth, jaw and genitalia are Bulimuline in their main features. The reticulation of the lung is like that of *Auris egregia*.

The species fall into four groups, as follows :

a. Shell distinctly perforate or umbilicate.

b. Large, solid species, with spiral series of granules; three earlier whorls densely wave-striate; peristome expanded, subreflexed. *Group of T. melanocheilus.*

b¹. Smaller, more slender forms, with coarser, very irregular or dislocated wrinkles on the early whorls; peristome but slightly or not expanded. *Group of T. bitæniatus.*

a¹. Shell imperforate.

b. Early whorls finely and densely wave-striate longitudinally. *Group of T. taunaisii.*

b¹. Early whorls thimble-pitted. *Group of T. thompsoni.*

Group of T. melanocheilus.

T. melanocheilus Nyst, x, 44.

T. granocinctus Pils., xiv, 126.

T. sangoæ Tschudi, x, 45.

B. filocinctus Rolle.

B. pangæ Morel., x, 198.

T. foveolatus Rve., x, 46.

B. impressus Tschudi.

Group of T. taunaisii.

T. magnificus Grat., x, 46.

T. achilles Pfr., x, 51.

v. *monozonalis* Dh., x, 47.

v. *nehringi* Mart., x, 51.

T. tatutor Jous., x, 47.

T. hartwegi Pfr., x, 52, 198.

T. taunaisii Fér., x, 48.

Zebra loxensis Miller.

? *Helix pullata* Fér.

T. loxostomus Pfr., x, 52.

T. ascendens Pfr., x, 49.

T. salteri Sowb., x, 52.

T. plumbeus Pfr., x, 49.

T. thompsoni Pfr., x, 53, 198.

T. hector Pfr., x, 50.

T. yanamensis Morel., x, 54, 198.

T. largillierti Pfr., x, 50.

T. viriatus Morel., x, 54.

B. consimilis Rve.

T. requieni Pfr., x, 55.

Group of T. bitæniatus.

T. spixii Wagn., x, 55.

B. bivittatus Phil.

? *B. hyalinus* Spix.

B. bifasciatus Phil.

? *Bulinus sordidus* King.

B. fusiformis Tschudi.

T. inca Orb., x, 56.

form *unicolor* Phil., x, 59.

T. tæniolus Nyst., x, 57.

v. *alutaceus* Rve., x, 59, 198.

T. brephoides Orb., x, 57, 198.

v. *jelskii* Lub., x, 58.

T. iserni Phil., x, 57, 198.

T. porphyreus Pfr., x, 60, 198.

T. tarmensis Phil., x, 60.

T. jaspideus Morel., x, 61.

T. bitæniatus Nyst, x, 58; xiv,

Genus XENOTHAUMA Fulton, 1896.

This vol., p. 134. Type and sole species, *X. baroni*.

This is probably, as I have elsewhere noted, a *Scutalus* specialized in the whole structure of the post-nepionic shell; but so divergent that it deserves generic rank.

X. baroni Fult., xiv, 134. Peru.

Genus BULIMULUS Leach, 1815.

Man. Conch., x, p. 125. Type *B. guadalupensis* Brug.

Shell varying from ovate-conic to oblong, column-shaped, or rarely depressed and Helicoid; umbilicate or imperforate. Aperture with the outer lip usually thin, sometimes expanded. Columella straight or concave below, weakly folded above, the margin reflexed. Apical whorls variously sculptured (but never with an even, minute sculpture of pits in spiral and vertical series).

The mantle generally bears two widely separated lobes. The kidney is the length of the pericardium and triangular. The reticulation of the lung is chiefly along the intestinal side, spreading to the other side near the pneumostome. The pulmonary vein dominates, though sometimes the first branch of the vena cava is well developed (pl. 53, figs. 30 to 33).

The free retractors are typical of the family, the left tentacular and pharyngeal bands being more or less united proximally, and the right tentacular band arises from the face of the columellar muscle (pl. 54, fig. 39, *B. dealbatus*). As in other genera of the family, the columellar muscle is adnate throughout to the adjacent face of the mantle.

The genital system is simple. The penis is long and generally twisted, the vas deferens and retractor muscle arising from its apex; it is generally encircled around the base by a muscular sheath. The duct of the spermatheca is generally about as long as the oviduct. Some branches of the right tentacular muscle band are attached to the vagina and to the body-wall near the external opening.

The jaw is arcuate and plaited, the plaits vertical in the middle, not converging to form a triangular area (pl. 57, fig. 62, *B. dealbatus mooreanus*).

The radula has but slightly curved transverse rows of teeth, which are of the normal Helicoid form. In the rhachidian teeth, the large mesocone usually is flanked by small etocones. The laterals have

the mesocone large, ectocone well developed. This type is continued in the marginal teeth (pl. 57, fig. 63, *B. limnoides*, after Binney; fig. 64, *B. dealbatus mooreanus*). Distribution, from the southern United States to northern Patagonia.

The genus *Bulimulus* is more widely distributed than any other group of the family. It is also the least specialized; the genera preceding being variously specialized in shell characters, those following chiefly in characters of the teeth and jaws. It is likely that the common ancestors of all *Bulimulidæ* were similar to *Bulimulus* both in internal structure and shells.

The multitude of subgeneric and sectional names which have been proposed for minor groups of Bulimuli fall into three main divisions.

- I. Apical whorls smooth (p. xxiii.).
- II. Apical whorls irregularly wrinkled subvertically, or with the wrinkles waved, dislocated, or broken into a thimble-pitted reticulation (p. xxvi.).
- III. Apical whorls with regular, straight, vertical riblets (p. xxxii.).

DIVISION I. *Bulimuli with smooth apical whorls.*

The shell varies from obesely ovate to slender and column-shaped, or rarely Heliciform, and from umbilicate to imperforate. It is usually *calcareous and opaque*. The *apical whorls are smooth and glossy*, without sculpture of any kind. Aperture ovate or angular, the outer lip usually thin and simple, rarely expanded. Columella foldless, dilated above.

A group of plain-colored or whitish species characteristic of the Pacific slope and Andean highland, from Ecuador to Chili; with a few thinner, corneous or brownish forms, referred here with some doubt, in Bolivia and Argentina.

The species have in common a small, *smooth*, often teat-like nepionic shell. The subsequent growth is widely divergent in various forms, and hence a large number of "sections" have been established, based upon the contour assumed by the adult shell—natural groups, but of only minor systematic value.

Section *Platybostryx* Pilsbry, 1896.

Depressed, wider than high, acutely keeled at the periphery and around the broad, crater-shaped umbilicus.

B. eremothauma Pils., x, 129. Chili.

Helix reentsii Phil., preoc.

Section *Ataxas* Albers, 1850.

Long-conic, with 7–11 whorls coiled around a large, deep umbilicus. Type *B. umbilicaris*. Peru.

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| <i>B. umbilicaris</i> Soul., x, 130. | <i>B. huayaboensis</i> Dautz., J. de C., 1902. |
| <i>B. infundibuliformis</i> Jay. | |
| <i>B. infundibulum</i> Pfr., x, 131. | v. <i>attenuata</i> and <i>rudis</i> . |
| v. <i>umbilicatellus</i> Pils., x, 131. | <i>B. moniezi</i> Dautz, xiv, 136. |
| <i>B. tubulatus</i> Morel., x, 132. | f. <i>albescens</i> Dautz. |
| | <i>B. scalaricosta</i> Morel., x, 132. |

Section *Bostryx* Troschel, 1847.

Turreted, wrinkled, the last whorl or two free or separated by deep sutures; umbilicus inconspicuous. Type *B. solutus*. Peru, Chili.

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| <i>B. solutus</i> Trosch., x, 133. | <i>B. holostoma</i> Pfr., x, 134. |
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Section *Geopyrgus* Pils., 1896.

Turreted, *tapering*, rimate, composed of 9–10 whorls. Peru.
B. turritus Brod., x, 135, 200.

Section *Geoceras* Pilsbry, 1896.

Column-shaped, composed of 16–19 narrow whorls. Type *B. columellaris*. Andes of Peru.

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| <i>B. columellaris</i> Rve., x, 136. | <i>B. veruculum</i> Morel., x, 137. |
| <i>B. cuspidatus</i> Morel., x, 137. | |

Section *Peronæus* Alb., 1850.

Rimate or perforate, long-fusiform, slender, with 7–11 whorls. Type *B. pupiformis*.

(Group of *B. pupiformis*. Chili, Peru.)

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| <i>B. pupiformis</i> Brod., x, 138. | <i>B. baeri</i> Dautz., xiv, 135. |
| <i>B. anachoreta</i> Pfr., x, 139. | <i>B. iocosensis</i> Dautz., xiv, 135. |
| <i>B. lactifluus</i> Pfr., x, 140. | <i>B. emaciatius</i> Morel., x, 143. |
| <i>B. atacamensis</i> Pfr., x, 140. | <i>B. spiculatus</i> Morel., x, 144. |
| <i>B. longurio</i> Crosse. | <i>B. acromelas</i> Morel., x, 144. |
| <i>B. nanus</i> Rve., x, 141. | <i>B. lichenorum</i> Orb., x, 145. |
| <i>B. leucostictus</i> Phil., x, 141. | <i>lichenorum</i> Orb. |
| <i>B. scabiosus</i> Sowb., x, 142. | <i>lichenum</i> Beck. |
| <i>B. terebralis</i> Pfr., x, 142. | <i>B. subcactorum</i> Pils., x, 145. |
| <i>B. bisculptus</i> Pfr., x, 142. | <i>B. tschudii</i> Trosch., x, 146. |

(Group of *B. williamsi*. Peru, Argentina.)

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| <i>B. williamsi</i> Pfr., x, 146. | <i>B. hamiltoni</i> Rve., x, 149. |
| <i>B. peliostomus</i> "Phil." Pfr., x, 147. | <i>B. elatus</i> Phil., x, 150. |
| <i>B. andiocus</i> Morel., x, 147. | <i>B. ceratacme</i> Pfr., x, 150. |
| <i>B. productus</i> Phil., x, 148. | <i>B. biformis</i> Pfr., x, 151. |
| <i>B. albicolor</i> Morel., x, 148. | <i>B. woodwardi</i> Pfr., x, 151. |
| <i>B. lesueureanus</i> Mor., x, 149. | <i>B. calchaquinus</i> Doer., x, 151. |
| | <i>B. famatimus</i> Doer., x, 152. |

(Group of *B. rhodacme*. Chili, Peru.)

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| <i>B. rhodacme</i> Pfr., x, 152. | <i>B. voithianus</i> Pfr., xi, 322. |
| <i>B. pustulosus</i> Brod., x, 153. | <i>boithyanus</i> Ads. |
| <i>B. scalarioides</i> Ph., x, 154. | <i>meridionalis</i> Rve. |
| | <i>feisthameli</i> Hupé. |

Section *Lissoacme* Pils., 1896.

Obese or ovate, umbilicate or perforate. Type *B. erythrostomus*.

(Group of *B. reentsi*. Chala, Peru.)

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| <i>B. reentsi</i> Phil., x, 155. | <i>B. denickei</i> Gray. |
| <i>B. reentzi</i> Schauf. | <i>B. deneckei</i> H. & A. Ad. |

(Group of *B. hennahi*. Chili to Ecuador.)

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| <i>B. styliger</i> Beck., x, 156. | <i>B. sordidus</i> Less., x, 163. |
| <i>B. vittatus</i> Brod. | <i>B. guttatus</i> Brod., x, 163. |
| <i>B. lemniscatus</i> Dh. | <i>B. juana</i> Cousin, x, 164. |
| <i>B. hennahi</i> Gray, x, 156. | <i>B. laurentii</i> Sowb., x, 164. |
| <i>rubescens</i> Rve. | <i>lorenzii</i> Orb. |
| <i>lychnorum</i> Sowb. | <i>B. scutulatus</i> Brod., x, 165. |
| <i>cactorum</i> Orb. | <i>B. limonoicus</i> Orb., x, 165. |
| <i>virginalis</i> Morel. | <i>cinereus</i> Rve. |
| <i>B. metamorphus</i> Pils., x, 157. | <i>B. depstus</i> Rve., x, 181; xiv, 136. |
| <i>B. limensis</i> Rve., x, 158. | <i>flagellatus</i> Pils., x, 166. |
| <i>B. ceroplasta</i> Pils., x, 159. | <i>B. andicola</i> Pfr., x, 166. |
| <i>B. acalles</i> Pfr., x, 160. | <i>B. ulloæ</i> Phil., x, 167. |
| <i>B. erosus</i> Brod., x, 160. | <i>B. apertus</i> Pfr., x, 168. |
| <i>B. conspersus</i> Brod., x, 160. | <i>B. (?) tumidulus</i> Pfr., x, 168. |
| <i>B. coagulatus</i> Rve., x, 161. | <i>Bulinus inflatus</i> Brod. |
| <i>B. modestus</i> Brod., x, 161. | <i>B. scalariformis</i> Brod., x, 169. |
| <i>striatulus</i> Sowb. | <i>B. rusticellus</i> Mor., x, 170. |
| <i>orbigny</i> Pfr. | <i>B. devians</i> Dohrn, x, 170. |
| <i>B. delicatulus</i> Phil., x, 162. | <i>B. compactus</i> Fult., xiv, 282. |

(Group of *B. derelictus*. Chili, Ecuador.)

- B. derelictus* Brod., x, 172. *B. umbilicatus* Mill., x, 172.
B. curtus Koch. Prov. Loja, Ecuador.

(Group of *B. erythrostomus*. Chili.)

- B. erythrostomus* Sowb., x, 173. *B. mejillonensis* Pfr., x, 177.
 v. albus Sowb., x, 174. *callosus* Phil.
 olorinus Ducl. *mexilloensis* Schauf.
B. huascensis Rve., x, 174. *B. affinis* Brod., x, 177.
B. albicans Brod., x, 175. *v. paposensis* Pfr., x, 178.
 spixii Pot. & Mich. *B. callosus* Pfr., x, 178.
B. pruinosis Sowb., x, 175. *B. pervius* Pfr., xiv, 139.
B. rouaulti Hupé, x, 176.
B. simpliculus Pfr., x, 176; xiv,
 137.

(Group of *B. striatus*. Peru, Ecuador.)

- B. striatus* King, x, 179. *radiatus* Morel., x, 182.
 Buliminus striatellus Bk. *v. orophilus* Morel., x, 183.
B. piuranus Alb., x, 180. *v. balsanus* Morel., x, 184.
B. alausiensis Cousin, x, 180. *v. reconditus* Rve., x, 181.
B. delumbis Rve., xiv, 138. *B. cereicola* Morel., x, 184.
B. nigropileatus Rve., x, 182; *cercicola* Morel.
 xiv, 137. *B. munsteri* Orb., x, 185.
 v. stenacme Pfr., x, 182. *B. cambus* Gray.
 v. angrandianus, Pils., xiv, *B. bilineatus* Sowb., x, 187.
 137.

(Group of *B. apodemetes*. Argentina, Bolivia.)

- B. apodemetes* Orb., x, 187. *B. fayssianus* Pet., x, 192.
 pessulatus Rve. *B. turritellatus* Bk., x, 193.
B. centralis Doer., x, 188. *Helix turritella* Orb.
B. ventanensis Pils., x, 189. *v. pliculosa* Anc., xiv, 139.
B. conospirus Doer., x, 189. ? *B. luridus* Pfr., x, 194.
B. oxylabris Doer., x, 190. Habitat unknown.
B. stelzneri Dohrn, x, 190.

DIVISION II. *Bulimuli* with the nepionic whorls sculptured with waved, zigzag or irregular subvertical wrinkles, or with the wrinkles dislocated and broken more or less into granules, or anastomosing to form a netted or thimble-like pattern.

This group of forms inhabits temperate and tropical South America, the Antilles and southern Mexico. The shell is ovate, less varied in form than in the preceding and following divisions.

Subgenus PLECTOSTYLUS Beck, 1837.

Manual xi, p. 2. In *B. chilensis* Semper found two small, widely separated body-lobes on the left margin of the mantle. The kidney is of the usual short, triangular form; genitalia simple, the penis with terminal retractor, spermatheca lying near the heart, on a long duct. The jaw is broad, strongly but irregularly ribbed. Radula with at least 101 teeth in a transverse row, the central tooth with short middle and obsolete side cusps, inner 14 laterals bicuspid, the inner cusp then appearing. Binney, who examined the same species, agrees as to the teeth. The rather strong development of the inner cusp gives the marginal teeth a strong resemblance to those of *Drymæus*. Type *B. peruvianus*. Almost wholly a group of the Chilean coastal region.

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| <i>B. coturnix</i> Sowb., xi, 3. | <i>B. chilensis</i> Less., xi, 8. |
| <i>B. broderipii</i> Sowb., xi, 4. | <i>Achatina chiliensis</i> Less. |
| v. <i>elongatus</i> Orb., xiv, 140. | <i>B. granulosus</i> Pot. & Mich. |
| <i>B. buschii</i> Pfr., xi, 5. | <i>B. graniger</i> Beck. |
| <i>B. variegatus</i> Pfr., xi, 5. | <i>B. aldunatea</i> Hupé. |
| <i>rupicolus</i> Rve. | <i>Partula flavescens</i> King. |
| <i>B. moestai</i> Dkr., xi, 6. | <i>B. reflexus</i> Pfr., xi, 9. |
| <i>B. peruvianus</i> Brug., xi, 7. | <i>B. ochsenii</i> Dkr., xi, 10. |
| <i>corrugatus</i> King. | <i>arbustorum</i> Phil. |
| <i>gravesi</i> King. | <i>B. coquimbensis</i> Brod., xi, 10. |
| <i>B. punctulifer</i> Sowb., xi, 317. | v. <i>perelegans</i> Pils., xi, 11. |
| <i>B. prolatus</i> Gld., xi, 318. | <i>elegans</i> Pfr. |
| | <i>B. filaris</i> Pfr., xi, 316. |
| | <i>hilarus</i> H. & A. Ad. |

Subgenus SCUTALUS Alb.

Man. Conch. xi, p. 12.

The genital system in *B. proteiformis*, *proteus* and *versicolor* is simple, the penis and spermatheca duct long (pl. 52, fig. 29, *B. versicolor*, after Strebel). The jaw is strong, arcuate, with rather wide plaits, not imbricating (pl. 59, fig. 5, *B. proteus*, after Strebel). Radula with 90 to 96 teeth in a transverse row in *B. proteiformis*,

103 to 107 in *B. proteus*. The rhachidian and inner lateral teeth have no ectocones, an ectocone appearing on the 17th or 18th lateral. The marginal teeth are bicuspid (pl. 59, fig. 2, *B. proteiformis*, after Semper).

(Group of *B. proteus*. Peru.)

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| <i>B. proteus</i> Brod., xi, 13; xiv, | <i>B. baroni</i> Fult., xi, 172; xiv, |
| 140. | 142. |
| <i>sordidus</i> Dh. | <i>B. steerei</i> Pils., xiv, 140. |
| <i>B. mutabilis</i> Brod., xi, 14. | <i>B. versicolor</i> Brod., xi, 16. |
| <i>sordidus</i> Rve. | <i>variatus</i> Küster. |
| <i>B. proteiformis</i> Dohrn, xi, 14. | v. <i>callaoensis</i> Pils., xi, 16. |
| <i>B. coræformis</i> Pils., xi, 15; xiv, | <i>B. aquilus</i> Rve., xi, 17. |
| 142. | ? <i>B. mercurius</i> Pfr., xiv, 140. |
| <i>B. cretaceus</i> Pfr., xiv, 141. | |

(Group of *B. tupacii*. Andes of Peru and Bolivia.)

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| <i>B. revinctus</i> Hupé, xi, 17. | <i>B. purpuratus</i> Rve., xi, 21. |
| <i>B. gayi</i> Pfr., xi, 18. | <i>B. weddelli</i> Hupé, xi, 21. |
| <i>B. tupacii</i> Orb., xi, 19; xiv, 142. | <i>B. nemorensis</i> 'Ph.' Pfr., xi, 22. |
| <i>B. thamnoicus</i> Orb., xi, 19; xiv, | <i>B. angrandi</i> Mor., xi, 23. |
| 142. | <i>B. alauda</i> Hupé, xi, 23. |
| <i>B. pluto</i> Crosse, xi, 20. | <i>B. nucinus</i> Rve., xi, 24. |
| <i>B. petiti</i> Pfr., xi, 21. | |

(Group of *B. culmineus*. Andes of Peru and Bolivia.)

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| <i>B. culmineus</i> Orb., xi, 25. | <i>B. edwardsi</i> Mor., xi, 27. |
| <i>jussieui</i> 'Val.' Pfr. | <i>B. badius</i> Sowb., xi, 28. |
| <i>B. subjussieui</i> Pils., xi, 26. | <i>B. polymorphus</i> Orb., xi, 28, 320. |
| <i>jussieui</i> Hupé. | <i>B. promethus</i> Cr., xi, 28. |
| <i>B. lithoicus</i> Orb., x, 179. | <i>B. ferrugineus</i> Rve., xi, 29. |
| <i>culminans</i> Rve. | <i>B. peristomatus</i> Doer., xi, 29. |
| <i>B. pentlandi</i> Rve., xii, 27. | |

(Group of *B. æquatorius*. Andes of Ecuador.)

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| <i>B. æquatorius</i> Pfr., xi, 30. | <i>B. caliginosus</i> Rve., xi, 33. |
| <i>B. ochraceus</i> Mor., xi, 31. | <i>B. cousini</i> Jouss., xi, 33. |
| <i>B. cotopaxiensis</i> Pfr., xi, 31. | <i>B. quitensis</i> Pfr., x, 158. |
| <i>B. subfasciatus</i> Pfr., xi, 32. | v. <i>irregularis</i> Pfr., xi, 34. |
| <i>B. anthisanensis</i> Pfr., xi, 32. | v. <i>catlowiæ</i> Pfr., xi, 34. |
| <i>antisanensis</i> Alb. Mart. | |

Subgenus BULIMULUS (restricted).

Man. Conch. xi, p. 35. Type *B. guadalupensis* Brug. Includes *Leptomerus* Albers.

The shell is rather small, brown or corneous-brown, rarely with a few wide bands; lip and columella simple.

The kidney is as long as the pericardium, and triangular. The venation of the lung is chiefly on the intestinal side, and is faint except for the pulmonary vein, which has no large branches (pl. 53, fig. 31, *B. guadalupensis*. The figure is diagrammatic and the veins on the cardiac side are represented too strong).

Genitalia (pl. 52, fig. 24, *B. guadalupensis*, form *acutus* Leach, from Guadalupe) characterized by the long and very much twisted penis, and the spermathecal duct, which is shorter than in other groups of *Bulimulinæ*, and *inserted upon the atrium*, there being no vagina. Other organs as usual. In a Porto Rican form identified as *fraterculus*, Pfeffer found the penis only moderately contorted and the spermathecal duct very long (Beiträge, v, p. 56). This agrees with Fischer's dissection of a specimen of *guadalupensis* from Pointe-à-Pitre (pl. 59, fig. 3) in which the duct of the spermatheca is very long. The penis is apparently provided with a flagellum, figured but not mentioned by Fischer. No flagellum is mentioned by Semper, who dissected a specimen from Barbados, and I think it undoubtedly a mistake.

The jaw is of the vertically plaited type, with 15–18 plaits, not converging in the middle. Radula characterized by tricuspid central teeth, the middle cusp very long, reaching over the margin of the basal plate. Laterals bicuspid (pl. 57, fig. 63, *B. limnoides*, after Binney).

Antillean Species.

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| <i>B. guadalupensis</i> Brug., xiv, 143. | <i>B. nicholli</i> A. D. B., xi, 40. |
| <i>H. exilis</i> Gmel., xi, 37. | <i>B. riisei</i> Pfr., xi, 41. |
| <i>B. acutus</i> Leach. | <i>B. lehmanni</i> Pfr., xi, 42. |
| <i>B. trifasciatus</i> Leach. | <i>B. limnoides</i> Fér., xi, 42. |
| <i>B. rubrifasciatus</i> Rve. | <i>lymnoides</i> Rve. |
| <i>B. simplex</i> Beck. | <i>limnæoides</i> Alb. |
| (?) <i>B. antiquensis</i> Gldg., Swains. | <i>B. chrysalis</i> Pfr., xi, 43. |
| <i>v. eyriesii</i> Drou., xi, 39, 320. | <i>B. semicinctus</i> Pils., xi, 44. |
| <i>fraterculus</i> auct., xiv, 143. | <i>B. lherminieri</i> Fisch., xi, 44. |
| | <i>B. houelmontensis</i> Cr., xi, 45. |

- B. fraterculus "Fér.," P. & M., xi, 46.
B. diaphanus Pfr., xi, 47.
B. martinicensis Pfr., xi, 47.
B. mazei Cr., xi, 48.
B. barbadensis Pfr., xi, 48.
 fuscus Gldg.
(?) B. stenogyroides Gupp., xi, 49.
B. sepulcralis Poey, xi, 49.
 urinarius Poey., *olim.*
(?) B. indistinctus Pfr., xi, 144.
 monilifer Rve.

Central American Species.

- B. inermis Morel., xi, 51.
 B. coriaceus Pfr., xi, 51; xiv,
 143.
behrendti, Pfr., *berendti* Pfr.
 (?) B. umbraticus Rve., xi, 52;
 xiv, 144.
 B. unicolor Sowb., xi, 53.
 v. istapensis C. & F., xi, 53.
 v. petenensis Morel., xi, 54.
 B. corneus Sowb., xi, 54.
 v. nubeculatus Pfr., xi, 55
 v. minor Mart., xi, 56.
 B. sarcodes Rve., xi, 56.
 B. dysoni Pfr., xi, 56.
 v. ignavus Rve., xi, 57.

Species of Northwestern South America.

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|-----------------------------------|----------------------------------|
| B. dysoni Pfr., xi, 57; xiv, 144. | B. hyaloideus Pfr., xi, 61. |
| B. buenavistensis Pils., xi, 59. | B. glandiniformis Sowb., xi, 61. |
| <i>corneus</i> Lea. | B. krebsianus Pils., xi, 62. |
| B. juvenilis Pfr., xi, 59. | B. hachensis Rve., xiv, 144. |
| B. cacticolus Rve., xi, 60. | B. fontainii Orb., xi, 62. |
| B. erectus Rve., xi, 60. | B. ucayalensis Cr., xi, 63. |
| B. marmatensis Pfr., xi, 61. | B. molecillus Rve., xi, 63. |

Species of N. E. South America to Argentina.

Argentine species described by Doering and Strobel are of uncertain position, and may belong here or to *Lissoacme* (page xxvi).

- B. orthodoxus Dr., xi, 64.
 B. eganus Pfr., xi, 64.
 B. tenuissimus Orb., xi, 64, 320.
 thoreyi Beck.
 B. puellaris Rve., xi, 66.
 B. gorritiensis Pils., xi, 66.
 B. sporadicus Orb., xi, 67.
 subtropicalis Doer.
 v. bonariensis Strob., xi, 68.
 v. montevidensis Pfr., xi, 68.
 gelidus Rve.

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|--------------------------------|---------------------------------|
| B. corumbaensis Pils., xi, 68. | B. fourmiersi Orb., xi, 71. |
| <i>amœnus</i> Bonnet. | B. simplex Hupé, xi, 72. |
| B. vesicalis Pfr., xi, 69. | B. heloicus Orb., xi, 72. |
| v. uruguayanus Pils., xi, 69. | B. nivalis Orb., xi, 72. |
| B. rushii Pils., x, 70. | B. plicatulus Pfr., xi, 72. |
| B. mendozanus Strob., xi, 71. | <i>pliculatus</i> Pfr.-Cless. |
| v. bonaerensis Doer., xi, 319. | B. castelnaui Pfr., xi, 73. |
| v. azulensis Doer., xi, 319. | B. luteolus Anc., xiv, 145. |
| B. tortoranus Doer., x, 192. | B. stilbe Pils., xiv, 145. |
| B. cordilleræ Strob., x, 191 | B. dukinfieldi Melv., xiv, 146. |
| B. monticola Doer., x, 191.. | B. marcidus Rve., xiv, 146. |
| B. aguirrei Doer., xi, 320. | |

Habitat unknown.

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|---------------------------------|------------------------------|
| B. indistinctus Pfr., xiv, 144. | B. inutilis Rve., xi, 73. |
| <i>monilifer</i> Rve. | B. haplochrous Pfr., xi, 74. |
| B. transparent Rve., xi, 73. | |

Section *Dentaxis* Pilsbry, 1902.

Cylindric-tapering, the nepionic shell with slight waved wrinkles and stronger spiral striæ; columella bearing a tooth-like fold; outer lip thin and unexpanded.

- B. dentaxis Pils., xiv, 143. Peru.

Section *Rhinus* Albers, 1860.

Nepionic whorls finely and densely zigzag striate or with interrupted waved striæ, the cuticle elsewhere hairy or bristly in spiral lines. Type *B. heterotrichus*.

The jaw of *B. constrictus*, examined by Schako, is composed of 11 wide plaits. The radula has 27, 1, 27 teeth, in rows straight in the middle, a little arcuate at the ends; centrals tricuspid, laterals bicuspid; both radula and jaw agreeing with those of *Bulimulus s. str.*

All of the species are Brazilian except *B. constrictus*, from Venezuela, and *argentinus*, from Entre-rios.

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| B. heterotrichus Moric., xi, 75. | B. longiseta Moric., xi, 77. |
| (?) <i>Helix tumida</i> Gmel. | B. scobinatus Wood, xi, 77; |
| v. subtenuis Pils., xi, 76. | xiv, 147. |
| B. velutinohispidus Moric., xi, 76. | B. ciliatus Gld., xi, 78. |
| <i>hirtus</i> Beck. | B. koseritzi Cless., xi, 79. |

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|------------------------------|---------------------------------|
| B. sarcophilus Pfr., xi, 80. | B. pubescens Moric., xi, 81. |
| B. constrictus Pfr., xi, 80. | B. argentinus Anc., xiv, 147. |
| <i>tateanus</i> Guppy. | B. heterogrammus Mor., xi, 321. |
| <i>angosturensis</i> Grun. | |

DIVISION III. *Bulimuli with the nepionic whorls sculptured with regular, straight vertical riblets.*

Discontinuously distributed from the south-central United States southward to the Galapagos and Peru in the west, and Argentina in the east. Sufficient magnification usually shows delicate spiral striæ between the riblets of the nepionic shell. In *Neopetræus* and *Drymæus* this sculpture becomes far more strongly developed. The shell is dull, brown or white, sometimes streaked but very rarely banded. The contour varies from ovate to pillar-shaped. The sections are separated chiefly by their geographic distribution, and merely stand for groups of species of common ancestry, none of which have diverged much structurally from the precursor of the entire series.

Section *Protoglyptus* Pils., 1897.

Man. Conch. xi, p. 84.

A group of northern and eastern South America, extending into some of the Caribbean islands. The Peruvian species are whitish and calcareous; the others are thin, brown or corneous, and frequently hairy. Binney found the jaw and teeth of *B. durus* similar to those of typical *Bulimulus*.

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| B. pilosus Guppy, xi, 85. | B. crepundia Orb., xi, 90. |
| B. sanctæ lucia Sm., xi, 86. | <i>constrictus</i> Rve. |
| <i>lucia</i> Pils., xi, 86. | <i>redditus</i> Rve. |
| B. chrysaloides Pils., xi, 87. | B. rivassii Orb., xi, 91. |
| B. durus Spix, xi, 87. | B. trichodes Orb., xi, 92; xiv, 148. |
| B. ovulum Rve., xi, 88. | B. exornatus Rve., x, 171; xiv, |
| B. pachys Pils., xi, 88. | 137, 282. |
| B. eudioptus Pils., xi, 89. | * * * * * |
| B. montivagus Orb., xi, 90. | B. pileiformis Moric., xiv, 149. |
| <i>cutisculptus</i> Anc., xiv, 147. | * * * * * |
| <i>v. chacoensis</i> Anc., xiv, 147. | B. glyptocephalus Pils., xi, 93. |
| B. polloneræ Anc., xiv, 148. | B. sarcochrous Pils., xi, 93. |
| | B. hæmatospira Pils., xiv, 149. |

Section *Næsiotus* Albers, 1850.

Næsiotus ALB., Die Heliceen, p. 162, + *Rhaphiellus* PFR. + *Pelecostoma* Reibisch (in part). Man. Conch., xi, p. 94.

A group of rather small species, including all *Bulimulidæ* of the Galapagos Islands. The surface is frequently wrinkled and generally striate spirally.

The genital system (pl. 59, fig. 6, *B. nux*, after Binney) is simple, penis long and slender, with terminal vas deferens. The duct of the ovate spermatheca is about as long as the penis, much shorter than the oviduct, and arises from the atrium. The jaw is composed of numerous flat plaits, 12 in *B. bauri* to 18 in *B. nux*, and is similar to that of typical *Bulimulus*. The radula has 15.9.1.9.15 teeth in *B. bauri*, 13.9.1.9.13 in *B. eschariferus* var. *ventrosus*, 31.9.1.9.31 in *B. nux*. The teeth (pl. 59, fig. 8, *B. bauri*, after Dall) are essentially alike in many species examined, the centrals being tricuspid, with the middle cusp large, as long as the basal plate; laterals bicuspid. The marginal teeth have a long, bifid inner cusp, and the outer cusp is split into several denticles. In this last character only does *Næsiotus* differ from typical *Bulimulus* in what is known of the soft anatomy, though the duct of the spermatheca is somewhat shorter than usual in *Bulimulus*. The splitting of the outer cusp indicates terrestrial rather than arboreal feeding.

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| B. achatellinus Fbs., xi, 99. | B. calvus Sowb., xi, 105. |
| <i>achatinellinus</i> Pfr. | B. nucula Pfr., xi, 106. |
| <i>achatinellus</i> Ads. | B. galapaganus Pfr., xi, 107. |
| B. nux Brod., xi, 100. | B. eschariferus Sowb., xi, 108 ; |
| <i>nuciformis</i> Petit. | xiv, 152. |
| v. incrassatus Pfr., xi, 102. | <i>rugulosus</i> Rve. |
| v. verrucosus Pfr., xi, 102. | <i>bizonalis</i> Anc. |
| v. asperatus Alb., xi, 102. | <i>subconoidalis</i> Anc. |
| <i>invalidus</i> Reib. | v. pileatus Dall, xi, 109. |
| B. approximatus Dall, xiv, 150. | v. ventrosus Reib., xi, 109. |
| B. rugulosus Sowb., xi, 103. | B. perspectivus Pfr., xi, 110. |
| v. infuscatus Anc., xi, 103. | <i>rugulosus</i> Reib. |
| v. nudus Reib., xi, 103. | B. snodgrassi Dall, xiv, 150. |
| B. planospira Anc., xi, 104. | |
| B. ustulatus Sowb., xi, 104. | |
| <i>venustus</i> Reib. | |

- B. jacobi* Sowb., xi, 111; xiv, 151.
 (?) *avellana* Beck.
v. pallidus Reib., xi, 112.
v. cinereus Reib., xi, 112.
vermiculatus Dall.
B. olla Dall, xi, 113.
jacobi Rve.
B. tanneri Dall, xi, 113; xiv, 152.
fanneri Dall.
B. duncanus Dall, xi, 114; xiv, 152.
B. darwini Pfr., xi, 115.
manini Cpr.
B. wolfi Reib., xi, 115.
B. hoodensis Dall, xiv, 151.
B. unifasciatus Sowb., xi, 116.
B. simrothi Reib., xi, 117.
tortuganus Dall.
B. bauri Dall, xi, 118.
B. amastroides Anc., xi, 118.
B. curtus Reib., xi, 119.
anceyi Dall.
B. canaliferus Reib., xi, 119.
B. sculpturatus Pfr., xi, 120.
B. rugiferus Sowb., xi, 121.
B. nesioticus Dall, xi, 122.
B. reibischi Dall, xi, 122.
B. indefatigabilis Dall, xiv, 152.
B. habeli Stearns, xi, 123.
terebra Reib.
B. chemnitzoides Forbes, xi, 124.
lima Reib.

Section *Orthotomium* Crosse and Fischer.

Manual xi, p. 125.

The mantle has two short, widely separated lobes, with another near the anal orifice (pl. 53, fig. 32, *B. montezuma*).

The kidney and lung are as usual in the subfamily; the venation of the latter being confined to the area between the last fold of the gut and the pulmonary vein, and anteriorly on the cardiac side as far as the first branch of the vena cava. Elsewhere the venation is very slightly developed (pl. 53, fig. 30, *B. dealbatus*; fig. 33, *B. montezuma*, both double natural size).

The muscles are as usual in the family (pl. 54, fig. 39, *B. dealbatus*).

Genitalia. The long penis is moderately twisted, bears the retractor muscle at the apex, the vas deferens at or near it, and is encircled by a muscular sheath at the base. The vagina is moderately long; the spermatheca oval or globose, on a duct fully as long as the oviduct (pl. 52, fig. 23, *B. dealbatus*; fig. 25, *B. montezuma*, double natural size; fig. 28, *B. pallidior*, three times natural size).

The jaw is arcuate, bearing flat plaits which do not imbricate, and

are parallel in the middle (pl. 57, fig. 62, *B. d. mooreanus*). The radula (pl. 57, fig. 64, *B. d. mooreanus*), as in typical *Bulimulus*, the lateral and marginal teeth being bicuspid, centrals with small or subobsolete ectocones.

Distribution, Central and Northern Mexico, Lower California, and the Southwestern United States.

Group of B. alternatus. N.-E. Mexico, Texas to Ky.

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| <i>B. durangoanus</i> Mart., xi, 127. | v. <i>schiedeanus</i> Pfr., xi, 131. |
| <i>B. dealbatus</i> Say, xi, 128; xiv, | <i>niveus</i> Hegewisch. |
| 152. | <i>candidissimus</i> Nyst. |
| <i>liquabilis</i> Rve. | <i>xanthostomus</i> Wieg. |
| <i>confinis</i> Rve. | v. <i>patriarcha</i> W. G. B. xi, 132. |
| v. <i>nigromontanus</i> Dall, xi, | <i>B. alternatus</i> Say, xi, 132; xiv, |
| 128. | 152. |
| v. <i>ragsdalei</i> Pils., xi, 129. | <i>lactarius</i> Mke. |
| v. <i>pasonis</i> Pils., 1902. | v. <i>mariae</i> Alb., xi, 133. |
| v. <i>mooreanus</i> 'WGB.' Pfr. xi, | <i>binneyanus</i> Pfr. |
| 130. | <i>galeottii</i> Nyst. |
| <i>schiedeanus</i> auct. | <i>albidus</i> Taylor. |

Group of B. sufflatus. Lower California.

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| <i>B. sufflatus</i> Gld., xi, 136. | <i>B. recognitus</i> Mab., xi, 137. |
| <i>vesicalis</i> Gld. | <i>B. pilula</i> W. G. B., xi, 138. |
| <i>juarezi</i> Pfr. | <i>B. cooperi</i> Dall, xi, 139. |
| v. <i>insularis</i> Coop., xi, 137. | <i>B. decipiens</i> Coop., xi, 139. |
| v. <i>chinchensis</i> Coop., xi, 137. | <i>B. levis</i> Dall, xi, 140. |

Group of B. montezuma. Lower Cal.; Sinaloa.

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| <i>B. excelsus</i> Gld., xi, 141. | <i>B. acholus</i> Mab., xi, 143. |
| <i>elatus</i> Gld. | <i>B. cosmicus</i> Mab., xi, 144. |
| v. <i>sinaloæ</i> Pils., xi, 142. | <i>B. montezuma</i> Dall, xi, 144. |
| <i>B. pallidior</i> Sowb., xi, 142. | <i>proteus</i> auct. Amer. |
| <i>vegetus</i> Gld. | <i>B. baileyi</i> Dall, xi, 145. |
| v. <i>striatulus</i> Dall, xi, 143. | <i>B. gabbi</i> C. & F., xi, 147. |
| <i>vegexspiza</i> Coop. | |

Group of B inscendens. Lower California.

- B. xantusi* W. G. B., xi, 148. *B. cacotycus* Mab., xi, 150.
B. digueti Mab., xi, 148. *B. inscendens* W. G. B., xi, 150.
B. beldingi Coop., xi, 149.
 v. alta Dall, xi, 149.
 v. monticola Dall, xi, 150.

Section *Plicolumna* Cooper, 1895.

Vol. xi, p. 151. Slender and column-shaped. Distribution, Lower California.

- B. artemisia* W. G. B., xi, 152. *B. abbreviatus* Coop., xi, 153.
 artemesia auct. *B. ramentosus* Coop., xi, 153.

Section *Sonorina* Pilsbry, 1896.

Leptobyrsus C. & F. not *Leptobyrsa* Stal. Columella bearing a strong, callous lamella within the last whorl. Distribution, Lower California.

- B. rimatus* Pfr., xi, 157. *B. veseyianus* Dall, xi, 160.
 bryanti Coop. *B. lepidovagus* Mab., xi, 161.
B. spirifer Gabb, xi, 158. *B. dentifer* Mab., xi, 161.
 v. orthelasmus Pils., xi, 159. *B. dismenicus* Mab., xi, 162.
B. lamellifer Pils., xi, 160. *B. subspirifer* Mab., xi, 162.

Genus NEOPETRÆUS Martens, 1885.

Manual, xi, p. 163; xiv, p. 152. Type *N. millegranus* Mart.

This group is closely related to *Drymæus*, from which the shell differs in having the vertical riblets of the nepionic shell wider spaced and stronger than the spirals; though both are sometimes obsolete, leaving the apex smooth.

The jaw is like that of *Drymæus*, composed of 21 (*lobbi*, pl. 59, fig. 1, after Binney) to 31 (*altoperuvianus*) delicate imbricating ribs, which converge in the middle. The radula is broad, with numerous teeth in each row (90.1.90 in *N. lobbi*, pl. 59, fig. 9, after Binney). The centrals have a single long cusp; the laterals bear a very long, oblique, broad cusp, notched near the apex, the central and inner cusps being concrescent. The marginal teeth in *N. lobbi* have a large ectocone, and the united middle and inner cusps are shorter thus resembling the laterals of *Drymæus*, but in *N. altoperuvianus* (pl. 59, fig. 4, after Binney) the marginal teeth are of the same type as the laterals. The anatomy is otherwise unknown.

Distribution, Andes of Peru.

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| N. binneyanus Pfr., xi, 164. | (?) N. heterogyrus Phil., xi, 174. |
| N. vadum Pils., xi, 165. | N. sowerbyi Rve., xi, 174. |
| N. filiola Pils., xi, 165. | N. arboriferus Pils., xi, 175; xiv, |
| N. cora Orb., xi, 166. | 153. |
| v. unicolor Pfr., xi, 167. | f. rectistrigatus Pils., xi, 176. |
| N. tessellatus Shutt., xi, 167. | f. latistrigatus Pils., xi, 176. |
| v. atahualpa Dohrn, xi, 168. | N. patasensis Pfr., xi, 176; xiv, |
| v. perincrassatus Pils., xi, 169. | 153. |
| N. papillatus Morel., xi, 169. | N. lobbi Rve., xi, 177; xiv, 153. |
| N. catamarcanus Pfr., xi, 170. | v. ptychostylus Pfr., xi, 178. |
| N. millegranus Mart., xi, 170. | N. decussatus Rve., xi, 178; xiv, |
| N. rhodolarynx Rve., xi, 171. | 154. |
| devillei Hupé. | v. myristicus Rve., xi, 178. |
| N. platystomus Pfr., xi, 172; xiv, | v. brownii Pils., xi, 179. |
| 153. | N. cœrulescens Pfr., xi, 180. |
| N. altoperuvianus Rve., xi, 173. | v. columna Pils., xi, 180. |
| v. gracilior Pils., xi, 173. | |

Genus OXYCHONA Mörch, 1852.

Man. Conch. xi, p. 181. Type *O. bifasciata* Burrow.

Shell trochiform, with conspicuous peripheral keel, the nepionic whorls evenly latticed, as in *Drymaeus*. Jaw composed of many vertical plaits, not converging in the middle. Radula with V-shaped rows of nearly similar teeth throughout, the middle cusps very large, spatulate; ectocones wanting on the central, present on the lateral teeth. Basal plates rather large and squarish (see vol. ix, p. 189, pl. 51, figs. 9, 10, 11, teeth and jaw of *O. bifasciata*). Genitalia unknown.

In the peculiar teeth of the radula, arranged in strongly V-shaped rows, *Oxychona* resembles *Zaplagius*. But in the latter group entocones are distinctly developed on all but the three inner lateral teeth, and the basal-plates are narrow. *Liostracus* has a somewhat similar dentition, owing to the wide mesocones; but the rows of teeth are nearly straight, and the structure of both basal-plate and cusps is more like normal *Drymaeus*. In *Zaplagius* the outer marginal teeth are distinctly less modified than the rest of the radula, but in *Oxychona* the whole series is modified.

Species all of eastern Brazil, and evidently arboreal. The pertinence of *O. gyrina* Val. to *Oxychona* is doubtful, as neither the

apical sculpture or the dentition is known. It probably groups with *B. pileiformis* Moric.

O. bifasciata Burr., v, 129; xi, *O. lonchostoma* Mke., v, 130.
181. ?*O. gyrina* Val., v, 131.

v. *mimarum* Anc., xiv, 154.

Genus ZAPLAGIUS Pilsbry, 1896.

Nautilus ix, p. 115, Feb., 1896; *Man. Conch.* xi, 185. Type *Helix navicula* Wagn.—*Navicula* Spix, 1827, not of Blainville, 1825.—*Otostomus* of some authors.

Shell conic or obliquely conic, with the apical sculpture of typical *Drymæus*, and a keel around the truncate or flattened base; the last whorl ascending, lip expanded or reflexed, thin.

Jaw deeply arched, with narrow plaits (43 in *aurisleporis*) converging mesially as in *Drymæus*.

Two widely separated lobes are on the left edge of the mantle. The kidney is the length of the pericardium (*Semper*).

The genital system (pl. 50, fig. 8, *Z. aurisleporis*, after *Semper*) is simple, the long slender penis having a terminal retractor, and the ovate spermatheca a long duct, as in *Bulimulus*, *Drymæus*, etc.

The radula (of *Z. aurisleporis*, pl. 58, figs. 70–74, from a specimen supplied by Dr. H. v. Ihering) has 37.1.37 teeth in V-shaped rows (pl. 58, fig. 74). The median tooth of each row has an exceedingly large, rounded cusp, the basal-plate being narrow except under the cusp. The lateral teeth have similar but subangular cusps, more or less emarginate near the inner side, indicating the concrescence of an entocone with the mesocone; and far back there is a minute, vestigial outer cusp, remote from the main cusp, as in some *Urocoptidæ*. The fourth to sixth laterals show the entocone as a short prong, becoming stronger as we pass outward on the radula (fig. 70, 11th and 12th, and fig. 71, 21st and 22d teeth). The marginal teeth (pl. 58, fig. 73, 33d to 37th teeth) have a large mesocone, a retreating and distinct entocone, and the ectocone has traveled forward, become larger and usually bifid. They thus approximate to the marginals of typical *Drymæus*.

With the apical sculpture, jaw, and general anatomy of *Drymæus*, this group seems sufficiently specialized in dentition and shell to stand as a distinct genus. Its close relationship to *Oxychona* can hardly be doubted. The eastern Brazilian *Otostomus signatus* may also be related, but its soft anatomy is unknown.

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| <i>Z. navicula</i> Wagn., xi, 186. | <i>Z. aurisleporis</i> Brug., xi, 189. |
| <i>N. fasciata</i> Spix. | <i>B. lagotis</i> Mke. |
| <i>v. lateritius</i> Pils., xi, 320. | <i>Auricula leporis</i> Lam. |
| <i>Z. involutus</i> Mart., xi, 187. | <i>Stenostoma auritum</i> Spix. |
| <i>Z. uranops</i> Pils., xi, 188. | <i>f. intensior</i> Pils., xi, 190. |
| <i>Z. lateralis</i> Mke., xi, 188. | <i>Z. aurismuris</i> Moric., xi, 191. |
| | <i>Helix uniangularata</i> Fér. |

Genus DRYMÆUS Albers, 1850.

Drymæus ALB., Die Hel., p. 155, types *B. xanthostoma* and *B. hygrohylæus*.—PILSBRY, Manual, xi, p. 191.

In this group the shell is generally of lighter structure and brighter color than in *Bulimulus*. With the exception of the aberrant subgenus *Leiostracus*, all of the species have a characteristic pattern of apical sculpture, consisting of minute pits arranged with great regularity in spiral and vertical lines.

The external anatomy, free muscles, and pallial organs are practically identical with those of *Bulimulus* (pl. 54, fig. 40, *D. acervatus* Pfr., x 2). The secondary ureter is closed nearly to the end. The genital system is similar to that of *Bulimulus*.

The jaw is strongly arched, thin and flexible, composed of many narrow plaits, narrowly imbricating, and obliquely converging toward the median line, usually leaving a triangular plait or several short, wedge-shaped plaits in the middle. The lower or cutting margin is often more or less serrate (pl. 50, fig. 1, *D. virginalis*, after Schako; pl. 58, fig. 69, *D. acervatus*).

Radula rather broad, with a great number of teeth, 115 to over 150, in each transverse row. The rows are more or less angular in the middle, but not markedly V-shaped (pl. 50, fig. 2, *D. virginalis*, after Schako; pl. 58, fig. 75, *D. acervatus*, inverted).

The lateral teeth are oblique, tricuspid, the ento- and meso-cones more or less united basally; the ectocones become split upon the outer laterals and the marginal teeth. The rhachidian tooth varies widely, being tricuspid in some, unicuspid in other species (pl. 58, figs. 77, 79, *D. acervatus*; pl. 60, figs. 14, 15, *D. vincentinus*; pl. 60, fig. 16, *D. interpunctus*). In general, the lateral and marginal series of teeth are scarcely differentiated, all the side teeth being practically of one type. Distribution, tropical and subtropical regions of America, living chiefly on plants.

This genus is readily distinguished from *Bulimulus* by the sculpture of the apex (as in pl. 15, fig. 31). *Zaplagius*, *Oxychona*, *Otosotomus*, *Odontostomus*, which have the same apical sculpture, differ in other conchological characters, as well as in dentition. The marginal teeth of *Plectostylus* resemble those of *Drymæus*, but in all other *Bulimulid* genera the form of the teeth is different. It will readily be understood that since the apical sculpture has rarely been mentioned in descriptions, a number of the species not known to me by specimens are placed in this genus provisionally, from their general resemblance to forms known to belong here. Previous to the discovery that the apical sculpture is correlated with a certain type of jaw and teeth, there was no definite criterion for the classification of the species of *Bulimulus* and *Drymæus*, although von Martens, Crosse and Fischer, W. G. Binney and Pfeffer had recognized that two diverse types of lingual armature were found among the species usually classified as *Bulimulus*.

The dentition deserves, and would well repay, an extended study. In some forms, such as *D. interpunctus* (pl. 60, fig. 16), there are excessively numerous and very minute teeth, in which the basal plate is so thin, and contains so small an amount of conchiolin, that it is scarcely or not visible. The rhachidian tooth has three cusps, the mesocone but slightly larger than the ectocones; and it is often perceptibly asymmetrical. The rows of teeth run *backward* each side of the middle, then turn forward (pl. 50, fig. 2). Radulæ of this type have been found in *D. interpunctus* (see pl. 60, fig. 16), *D. virginialis* (Schako), *D. dormani* (Binney), *palpaloensis* and *sulphureus* (Pfeffer). All of these are thin-shelled species with thin, simple peristome.

A modification of this type is seen in *D. laticinctus*, *immaculatus*, *bahamensis*, etc., in which the single broad cusp of the rhachidian tooth is notched (see Binney, Ann. N. Y. Acad. Sci. III, pl. 12, f. I. H. F.).

In another series the rhachidian tooth has a single rather narrow cusp (pl. 60, figs. 14, 15, *D. vincentinus*). The rows of teeth bend about as in *D. interpunctus*, but to a less extent, and more gradually.

In *D. acervatus* (pl. 58, figs. 75, 77, 79) the basal plates are less indistinct; the rhachidian tooth is tricuspid, the mesocone much longer than the blunt ectocones. The rows of teeth run slightly *backward* from the middle towards the margins, and are without the double sinuation described above.

In *Liostracus*, *Zaplagius* and *Oxychona* the rows of teeth run obliquely *forward* from the middle towards the margins, as in the *Orthalicinæ* and most other land snails which have oblique rows.

Group of D. inæqualis. N. Argentina to Ecuador.

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| D. abyssorum Orb. xi, 192 ; xiv, | D. feriatius Rve., xi, 203. |
| 154. | D. yungasensis Orb., xi, 203. |
| D. bolivarii Orb., xi, 193. | D. andai Jous., xi, 212. |
| D. brachystoma Orb., xi, 193. | D. ochrocheilus Sm., xi, 204. |
| D. marmarinus Orb., xi, 194; xiv, | D. cantatus Rve., xi, 205. |
| 154. | D. peelii Rve., xi, 205; xiv, 154. |
| D. hygrohylæus Orb., xi, 194; | v. fordii Pils., xi, 205. |
| xiv, 154. | D. germaini Anc., xi, 206. |
| D. coarctatus Pfr., xi, 195. | D. subeffusus Phil., xi, 217. |
| D. schmidtii Pfr., xi, 195. | D. linostoma Orb., xi, 218. |
| <i>coarctatus</i> Rve. | D. serratus Pfr., xi, 218. |
| D. xanthostoma Orb., xi, 196. | D. dacostianus Pils., xi, 219. |
| D. zoographicus Orb., xi, 197. | <i>lucidus</i> DaCosta. |
| D. beyerleanus Hupé, xi, 197. | D. baezensis Hid., xi, 219. |
| D. interpietus Mart., xi, 198. | D. subsimilaris Pils., xi, 222. |
| D. inæqualis Pfr., xi, 199. | D. æquatorianus Sm., xi, 220. |
| D. petasites Mill., xi, 199. | D. recedens Pfr., xi, 221. |
| D. orthostoma Sm., xi, 200. | D. eurystomus Ph., xi, 221. |
| D. albolabiatum Sm., xi, 201. | D. elsteri DaC., xiv, 156. |
| D. fusoides Orb., xi, 201; xiv, 154. | D. jousseaumei Dautz. J. de C., |
| D. lusorius Pfr., xi, 202. | 1901. |
| D. lophoicus Orb., xi, 202. | D. scoliodes Dautz. J. de C., 1901. |

Species of Colombia and Venezuela.

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| D. violaceus Mouss., xi, 207. | D. elegantissimus Mss., xi, 211. |
| <i>eversus</i> Mouss. | D. ziczac DaC., xi, 212. |
| D. confluens Pfr., xi, 208. | D. bogotensis Pfr., xi, 212. |
| D. baranguillanus Pfr., xi, 208. | <i>spectatus</i> Rve., part. |
| D. flexuosus Pfr., xi, 209. | D. spectatus Rve., xi, 213. |
| D. membielinus Cr., xi, 209. | D. leai Pils., xi, 213. |
| D. cognatus Pils., xiv, 155. | <i>gracilis</i> Lea. |
| D. hidalgoi DaC., xi, 210. | D. subventricosus DaC., xiv, 156. |
| D. signifer Pfr., xi, 210. | D. exoticus DaC., xiv, 156. |
| D. felix Pfr., xi, 211. | D. dacostæ Sowb., xi, 214. |

Group of D. koppeli. Bogota.

D. koppeli Sowb. xi, 242.

Group of D. bivittatus. Ecuador.

D. bivittatus Sowb., xi, 242. *D. quadrifasciatus* Ang., xi, 243.
 v. flexilabris Pfr., xi, 243. *D. napo* Ang., xi, 244.

Group of D. bolivianus. Peru to Colombia.

D. bolivianus Pfr., ix, 244. *D. smithii* DaC., xi, 247.
D. subinterruptus Pfr., ix, 244. *D. caucaensis* DaC., xi, 247.
D. lætus Rve., ix, 245. *D. blandi* Pils., xi, 248.
D. trivittatus Mss., ix, 245. *D. malleatus* DaC., xi, 249.
D. tribalteatus Rve., ix, 246.
D. studeri Pfr., ix, 246.
 v. primula Rve., ix, 247.

Group of D. papyraceus. Brazil (*Mormus* Alb.).

D. papyraceus Mawe, xi, 250. *D. magus* Wagn., xi, 253.
 lita Fér.; *lituratus* Spix. *inflatus* Spix.
 v. papyrifactus Pils., xi, 252. *D. dutaillyi* Pfr., xiv, 158.
 ? *latis* Martens. *D. henseli* Mart., xi, 254.
D. polygrammus Moric., xi, 252. *D. acervatus* Pfr., xi, 255.
D. cuticula Pfr., xi, 253. *f. balteatus* Pils.
 f. paucipunctus Pils.

Group of D. glaucostomus. Venezuela.

D. glaucostomus Alb., xi, 256.

Group of D. trigonostomus. Venezuela.

D. trigonostomus Jon., ix, 256. *D. trigonostomus*.
 curianianus Rve. *v. correctus* Pfr., xi, 258.
 knorri Pfr. *D. auris* Pfr., xi, 259.

Group of D. chanchamayensis. Colombia to Peru.

D. chanchamayensis Hid., xi, 259. *D. pulcherrimus* H. Ad., xi, 260.
 canaliculatus var., Pfr. *D. chimborasensis* Rve., xi, 261.
D. fabrefactus Rve., xi, 260. *D. decoratus* Lea, xi, 261.
D. plicatoliratus DaC., xi, 260. *v. goniobasis* Pils., xi, 262.

Group of D. nystianus. Ecuador, Peru, etc.

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| D. nystianus Pfr., xi, 262. | D. cactivorus Brod., xi, 265. |
| v. nigricans Cousin, xi, 263. | <i>nitidus</i> Brod. |
| D. canaliculatus Pfr., xi, 263. | <i>nitidulus</i> Beck. |
| D. ambustus Rve., xi, 264. | <i>occidentalis</i> Mill. |
| v. chamæleon Pfr., xi, 264. | D. decoloratus Sowb., xi, 266. |
| D. loxensis Pfr., xi, 265. | D. visendus Hid., xi, 267. |

Group of D. farrisi. Peru and Ecuador.

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| D. chrysomelas Mart., xi, 267. | D. sachsei Alb., xi, 273. |
| f. raristriga, crebristriga Mts. | <i>catamayensis</i> Mill. |
| D. farrisi Pfr., xi, 268. | D. leucomelas Alb., xi, 274. |
| D. vespertinus Pfr., xi, 269. | D. vexillum Wood, xi, 274; xiv, |
| D. rubrovariegatus Higg., xi, 270. | 159. |
| D. loxanus Higg., xi, 270. | <i>pulchellus</i> Brod. |
| D. scitulus Rve., xi, 271. | v. varians Brod., xi, 274. |
| v. citrinellus "Ph." Pfr., xi, | v. rubellus Brod., xi, 275. |
| 271. | v. tigris Brod., xi, 275. |
| D. edmulleri Alb., xi, 272. | v. keppelli Pfr., xi, 296. |
| D. trujillensis Ph., xi, 272. | D. buckleyi Sowb., xi, 276. |
| D. lamas Higg., xi, 272. | D. lentiginosus Phil., xiv, 159. |

Group of D. pæcilus. Argentina to Colombia.

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| D. coniformis Pfr., xi, 276. | D. monachus Pfr., xi, 282. |
| D. oreades Orb., xi, 277. | D. canarius 'Ph.' Pfr., xi, 282. |
| D. pazianus Orb., xi, 277. | D. morbidus Ph., xi, 283. |
| v. pseudonyma Pils., xi, 278. | D. chenui, Ph., xi, 283. |
| <i>montagnei</i> Rve. | D. subroseus Ph., xi, 284. |
| D. rocayanus Orb., xi, 321. | D. nigroapicatus Pfr., xi, 284. |
| D. torallyi Orb., xi, 278. | D. alsophilus Ph., xi, 285. |
| <i>ventricosus</i> Par. | D. pæcilus Orb., xi, 285. |
| <i>draparnaudi</i> Pfr. | <i>præcilus</i> Anton. |
| D. borellii Anc., xi, 279. | <i>pictus</i> Bonnet. |
| D. montagnei Orb., xi, 280. | <i>icterica</i> Anc. |
| <i>castrensis</i> Pfr. | D. serenous Ph., xi, 285. |
| D. stigmaticus Ph., xi, 281. | D. obliquestriatus DaC., xiv, 157. |
| D. miliaris, Ph., xi, 281. | D. cylindricus DaC., xiv, 157. |
| D. clathratus Pfr., xi, 281. | D. interpunctus Mart., xi, 287. |
| D. confusus Rve., xi, 282. | D. subpellucidus Sm., xi, 288. |

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| D. flavidulus Sm., xi, 288. | D. serotinus Morel., xi, 293. |
| D. fuscobasis Sm. xi, 289. | D. longinquus Morel., xi, 293. |
| D. miltochrous Alb., xi, 290. | D. virgultorum Morel., x, 168 ; |
| D. vestalis Alb., xi, 290. | xi, 294. |
| D. anceps Alb., 290. | D. dendritis Morel., x, 186. |
| D. hepaticus Alb., xi, 291. | D. bicolor Sowb., xi, 295. |
| D. libertadensis Pils., xi, 291. | D. paeteli Alb., xi, 295. |
| <i>tæniatus</i> Phil. | D. cerussatus Rve., xi, 296. |
| D. mexicanus Lam., xi, 291. | D. annulatus Rve., xi, 296. |
| <i>vittata</i> Humb. | <i>bolivianus</i> Rve. |
| <i>humboldtii</i> Rve. | |
| v. primularis Rve., xi, 292. | |

Group of D. depictus. Colombia, Venezuela and Guiana.

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| D. semimaculatus Pils., xi, 297 ; | D. deshayesi Pfr., xi, 303. |
| xiv, 159. | D. dubius Pfr., xi, 303. |
| <i>maculatus</i> Lea. | D. effeminatus Rve., xi, 304. |
| D. gereti Anc., xiv, 160. | D. manupictus Rve., xi, 304. |
| D. semifasciatus Mss., xi, 298. | D. fresnoensis Pils., xi, 304. |
| D. depictus Rve., xi, 299. | D. virgo Lea, xi, 305. |
| v. ictericus Mts., xi, 299. | <i>gruneri</i> Pfr. |
| v. pervariabilis Pfr., xi, 300. | D. demerarensis Pfr., xi, 306. |
| D. granadensis Pfr., xi, 300. | D. demotus Rve., xi, 306. |
| D. incarnatus Pfr., xi, 300. | <i>feriatus</i> Rve. |
| D. lividus Rve., xi, 301. | D. nigrofasciatus Pfr., xi, 307. |
| D. pertristis Pils., xi, 301. | v. elongatulus Pils., xi, 307. |
| <i>tristis</i> Pfr. | D. funeralis Brug., xiv, 160. |
| D. sanctæmarthæ Pils., xiv, 161. | D. amœnus Pfr., xi, 308. |
| D. roseatus Rve., xi, 301. | D. fidustus Rve., xi, 308. |
| v. montanus Pils., xiv, 161. | D. rufolineatus Drou., xi, 308. |
| D. lacteus Lea, xi, 302. | D. succinea Pils., xiv, 160. |
| D. meridanus Pfr., xi, 303. | |

Group of D. virginalis. Colombia, Venezuela.

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| D. virginalis Pfr., xi, 309. | D. columbianus Lea, xi, 312. |
| D. electrum Rve., xi, 310. | D. venezuelensis Mart, xi, 312. |
| D. tenuilabris Pfr., xi, 310. | <i>membranaceus</i> Rve. & Mart. |
| D. flavidus Mke., xi, 310. | D. gratus Pfr., xi, 313. |
| D. debilis Beck, xi, 311. | D. amandus Pfr., xi, 313. |

SPECIES OF TRINIDAD, THE WEST INDIES AND FLORIDA.

- D. dormani W. G. B., xii, 2.
 v. albidus Wright, xii, 3.
 subfasciatus Ckll.
 D. dominicus Rve., xii, 3.
 marielinus Poey.
 floridanus Pfr.
 hemphilli Wright.
 D. hjalmarsoni Pfr., xii, 7.
 D. moussoni Pfr., xii, 8.
 D. bahamensis Pfr., xii, 8.
 D. erubescens Pfr., xii, 9.
 rufescens Gray.
 D. immaculatus 'Ad.' Rve., xii, 10.
 D. liliaceus Fér., xii, 10.
 D. sallei Pils., xii, 11.
 stramineus auct.
 v. haitensis Pils., xii, 12.
 bahamensis auct.
 D. virginalis Pfr.
 v. dominicanus Pils., xii, 12.
 D. stramineus Gldg., xii, 13.
 lucidus Rve.
 v. fasciatus Sm., xii, 14.
 D. multifasciatus Lam., xii, 14.
 H. picturata Fér.
 v. albicans Maze, xii, 16.
 v. christopheri Pils., xii, 16.
 D. laticinctus Gupp., xii, 16.
 D. vincentinus Pfr., xii, 17.
 v. flavotinctus Pils., xii, 18.
 D. imperfectus Gupp., xii, 19.
 trinitarius Smith.
 D. aureolus Gupp., xii, 19.
 D. rawsoni Gupp., xii, 20.
 rawsonis H. Ad.
 D. mossi Smith, xii, 21.
 D. binominis Smith, xii, 21.
 indistinctus Guppy.
 v. lascellesianus Sm., xii, 22.
 D. broadwayi Sm., xii, 22.
 D. undulatus Gldg., xii, 22.
 fluctuatus Beck.
 D. elongatus Bolt., xii, 23.
 virgulata Fér.
 caribæorum Lam.
 caraibæorum Bk.
 f. ludovicus 'Rang' Pfr., xii, 26.
 proteus Gldg., Swains.
 rubra Pfr., *carnea* Mch.
 f. anguillensis Pfr., xii, 26.
 f. apiculatus Gray, xii, 26.
 kämmereri Mörch.
 f. extinctus Pfr., xii, 26.
 D. multilineatus Say, xii, 27.
 sisalensis Morel.
 venosus Rve.
 virgulatus A. Binney.
 f. menkei Grun., xii, 28.
 f. parvus Lea, xii, 29.

SPECIES OF MEXICO AND CENTRAL AMERICA.

Group of *D. josephus*.

- D. zhorquinensis Ang., xii, 31.
 pallidior Dall, part.
 D. josephus Ang., xii, 32
 f. maculosus Mart.
 f. concolor Mart.
 zeledoni Dall.

Group of D. serperastrum.

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| D. dombeyanus Fér., xii, 33. | D. lattrei Pfr., xii, 41. |
| <i>Lymnæa rugosa</i> Val. | <i>delattrei</i> F. & C. |
| <i>f. alcantaræ</i> Bern. | <i>focillatus</i> Rve. |
| D. fenestratus Pfr., xii, 34. | <i>pazianus</i> Tristr. |
| <i>piescheli</i> Mart. | v. <i>hiabundus</i> Mart., xii, 42. |
| D. lilacinus Rve., xii, 35. | D. chiapasensis Pfr., xii, 42. |
| <i>patricius</i> Rve. | <i>chiapensis</i> Mart. |
| v. <i>undulosus</i> , <i>unicolor</i> , <i>crosseii</i> , | D. castus Pfr., xii, 43. |
| <i>jansoni</i> , <i>ictericus</i> Mart. | D. dunkeri Pfr., xii, 45 ; xiv, 162. |
| D. serperastrum Say., xii, 37. | v. <i>forreri</i> Mss., xii, 46. |
| <i>serperastrus</i> Say. | <i>fenestratus</i> Phil. |
| <i>liebmanni</i> Pfr. | <i>fenestralis</i> Alb. |
| <i>ziebmanni</i> Rve. | D. chaperi C. & F., xii, 46. |
| <i>nitelinus</i> Rve. | D. colimensis Rolle, xii, 47; xiv, |
| <i>paivanus</i> Pfr. | 162. |
| D. zieglei Pfr., xii, 39. | |
| <i>californicus</i> Rve., xii, 40. | |

Group of D. sulcosus.

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| D. botterii C. & F., xii, 47. | D. jonasi Pfr., xii, 54. |
| D. sulcosus Pfr., xii, 48. | D. aurifluus Pfr., xii, 55; xiv, 162. |
| <i>hyematus</i> Rve. | D. recluzianus Pfr., xii, 55. |
| D. rudis Ant., xii, 49. | D. lineolatus Conr., xii, 57. |
| D. ghiesbreghti Pfr., xii, 50. | D. lirinus Morel., xii, 57. |
| v. <i>stolli</i> Mart. | D. cucullus Morel., xii, 58. |
| v. <i>interstitialis</i> Mart. | v. <i>gracilior</i> F. & C. |
| v. <i>iodostylus</i> Pfr. | |
| D. hegewischi Pfr., xii, 52 ; xiv, | |
| 152. | |
| ? <i>nitidulus</i> Bk. | |

Group of D. attenuatus.

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| D. fenestrellus Mart. xii, 58. | D. trimarianus Mart., xii, 62. |
| <i>gealei</i> H. Ad. | D. hepatostomus Pfr., xii, 62. |
| v. <i>subunicolor</i> Mart., xii, 59. | D. costaricensis Pfr., xii, 63. |
| D. attenuatus Pfr., xii, 60. | <i>navarrensis</i> Angas. |
| <i>kefersteini</i> Pfr. | D. pluvialis Pfr., xii, 64. |
| v. <i>varicosus</i> Pfr., xii, 61. | D. bugabensis Mart., xii, 64. |
| v. <i>pittieri</i> Mart., xii, 61. | D. chiriquiensis DaC., xiv, 162. |

- D. sargi* C. & F., xii, 65. *D. inglorius* Rve., xii, 67.
 v. *motaguæ* Mart., xii, 65. v. *heyneimanni* Pfr., xii, 68.
D. droueti Pfr., xii, 65.
 v. *sporlederi* Pfr., xii, 66.

Group of D. tripictus.

- D. irazuensis* Ang., xii, 68. *D. gabbi* Ang., xii, 70.
D. tripictus Alb., xii, 69. *gabbianus* W. G. B.
 rhodotrema Mart. *angasi* Mart.
 v. *hoffmanni* Mart., xii, 70.

Group of D. totonacus.

- D. semimaculatus* Pils., xii, 71. *D. emeus* Say, xii, 73.
D. totonacus Streb., xii, 71. *ziegleri* Rve.
D. dominicus Rve., xii, 72. *palpaloensis* Streb.
D. albostriatus Streb., xii, 72. v. *hypozoneus*, *albivaricosus* and
 membranaceus Mart.
D. championi Mart., xii, 73. *D. tryoni* F. & C., xii, 75.
 mexicanus Rve.
 v. *pochutlensis* C. & F.

Group of D. sulphureus.

- D. sulphureus* Pfr., xii, 76; xiv, v. *citronellus* Ang., xii, 78.
 162. v. *obesus* Mart., xii, 78.
 sulfureus Mart. *D. moricandi* Pfr., xii, 78.

Group of D. multilineatus.

- D. multilineatus* Say, xii, 79, 27. *D. uhdeanus* Mart., xii, 83.
D. moritinctus Mart., xii, 79. v. *cuernavacensis* C. & F.
D. livescens Pfr., xii, 80. v. *tepecensis* Mart.
D. discrepans Sowb., xii, 81. v. *borealis* Mart.
D. semipellucidus Tristr., xii, 82. *D. tropicalis* Morel., xii, 85.
D. heterogeneus Pfr., xii, 85. *D. inusitatus* Fult., xiv, 162.

Group of D. alternans.

- D. alternans* Bk., xii, 86. *D. hondurasensis* Pfr., xii, 88.
 vexillum Brod. *honduraticus* Tristr.
 v. *juquilensis* Mart., xii, 88. *honduranus* Mart.
D. tricingulatus Ant., xii, 88. *D. translucens* Brod., xii, 89.
D. panamensis Brod., xii, 90. v. *subfloccosus* Pils., xii, 90.

Section *Stenostylus* Pilsbry, 1898. Peru to Colombia.

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| D. kochi Pfr., xi, 314. | D. meleagris Pfr., xi, 315. |
| D. guttula Pfr., xi, 314. | D. colmeiroi Hid., xi, 316. |
| D. goudoti Pet., xi, 314. | D. tapadoides Ph., xi, 317. |
| D. troscheli Phil., xi, 314. | D. ignobilis Ph., xi, 317. |
| D. nigrolimbatus Pfr., xi, 315. | |

Subgenus *LEIOSTRACUS* Alb., 1850.

ALBERS, Die Hel., 1850, p. 156. PILSBRY, Manual xii, p. 90.

Perforate, ovate pyramidal shells with the brilliant and usually banded or streaked surface of *Drymæus*; but the nepionic shell has extremely minute spiral striæ and occasionally some slight vertical wrinkles.

The jaw (of *D. perlucidus*) is like that of *Drymæus*. The radula (pl. 58, fig. 78) has brace-shaped (—) transverse rows running forward from middle to margins, and with *comparatively few teeth in a row*, the formula of *D. perlucidus* being 19.9.1.9.19. The centrals have a single rather wide cusp shorter than the basal-plate. The laterals have a very broad, rounded main cusp and a well developed ectocone. The main cusp becomes emarginate on the marginals, and finally bifid, and the ectocone also splits (pl. 58, fig. 76, *D. perlucidus*.) The mantle is green in this species.

Leiostracus differs widely from *Drymæus* in its diverse, probably degenerate, apical sculpture, in *the reduced number of teeth*, and the entire, rounded cusps of the laterals. In all true *Drymæus* the lateral teeth are tricuspid. These differences will probably make it advisable to raise the group to generic rank; but until the radula of the type species, *D. vittatus*, is examined, I prefer to treat it as a subgenus of *Drymæus*; the natural position of *Leiostracus* being between *Drymæus* and *Zaplagius*. The species are all Brazilian.

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| D. vittatus Spix, xii, 91. | D. vimineus Moric., xii, 95. |
| <i>H. coxeirana</i> Moric. | D. manoeli Moric., xii, 96. |
| <i>H. caxoeirana</i> Moric. | <i>coxeirana</i> P. & M. |
| <i>B. candidus</i> Gray. | D. cinnamomeolineatus Moric., xii, |
| <i>B. omphalodes</i> Mke. | 97. |
| D. obliquus Rve., xii, 93; xiv, 163. | D. perlucidus Spix, xii, 98. |
| <i>jeffreysi</i> Pfr. | <i>opulinus</i> Sowb. |
| D. clouei Pfr., xii, 94. | <i>H. angulosa</i> Fér. |
| D. onager Bk., xii, 94. | |
| <i>zebra</i> Spix. | |
| v. subtuszonata Pils., xii, 95. | |

Genus BOTHRIEMBRYON Pilsbry, 1894.

Manual XIII, p. 1. *Liparus* of authors, not of Albers or Olivier.

The shell in this group is similar to that of *Bulimulus*. The soft anatomy is known by the work of Deshayes and Semper on *B. melo*, and of Hedley on *B. mastersi*, *tasmanicus* and *spenceri*.

The triangular kidney is as short as the pericardium in *B. melo*. The genital system in all the species examined, shows a long, slender penis, corrugated inside and without papilla, tapering into an epiphallus above, which receives the vas deferens midway and the retractor muscle at the apex (*melo*), or has a very delicate retractor attached to the membrane enveloping the vagina (*spenceri*), or is apparently without retractor, and ends in a long, coiled flagellum (*tasmanicus*). The oval spermatheca is upon a duct about as long as the oviduct, and attached to its enveloping membrane (pl. 51, fig. 20, *B. melo*, after Semper).

The jaw is thin and delicate, composed of 11 (*melo*), 15 (*mastersi*), 16 (*spenceri*), 32 (*tasmanicus*) plaits, which denticulate the lower or both edges and converge obliquely, leaving a triangular plait in the middle (pl. 60, fig. 10, *B. tasmanicus*, after Hedley).

The radula has 29.10.1.10.29 teeth in *B. melo*, 40.5.1.5.40 in *B. mastersi*, 32.15.1.15.32 in *B. spenceri*, 84.5.1.5.84 in *B. tasmanicus*. The teeth have squarish basal plates and pointed cusps of the ordinary Helicid form, the centrals with the mesocone shorter than or about as long as the basal plate below it, ectocones small (*melo*, *spenceri*), or wanting (*mastersi*, *tasmanicus*). The lateral teeth have longer mesocones and distinct ectocones. The marginals have the mesocone or both mesocone and ectocone split in some species, while in *spenceri* they remain simple, and "to the remotest marginals the mesocone dominates the ectocone."

Notwithstanding its isolation, this genus differs from South American *Bulimulinæ* in minor characters only, so far as we now know. The radula is of undifferentiated type, like that of *Bulimulus*, but the jaw has converging plaits as in *Drymæus Placostylus*, etc., and unlike *Bulimulus*. The genital system is identical with that of *Bulimulus* and *Drymæus* in *B. melo*, and also in the other species examined, except for the somewhat conflicting statements regarding the apex of the penis and its retractor muscle, which call for re-examination. The kidney is strictly Bulimuline, according to Semper; but the ancient and probably not very exact figure in the *Regne Animal*

shows a pallial system somewhat unlike known American Bulimuli, in the partial rotation of the pericardium and kidney. A tendency toward that condition exists however in some forms of *Drymæus*. I regret that want of material prevents a new examination of the pallial organs and retractor muscles.

Bothriembryon inhabits South Australia and Western Australia, with a single species in Tasmania.

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| B. dux Pfr., xiii, 3. | B. physodes Mke., xiii, 234. |
| B. inflatus Lam., xiii, 3. | <i>physoides</i> Reeve., xiii, 9. |
| ? <i>costulata</i> Fér. | B. brazieri Ang., xiii, 10. |
| <i>melones</i> Fér. | v. <i>humilis</i> Pils., xiii, 10. |
| <i>ovum</i> Dh. | B. gratwicki Cox, xiii, 11. |
| v. <i>melo</i> Q. G., xiii, 5. | B. onslowi Cox, xiii, 11. |
| v. <i>castaneus</i> Dh., xiii, 5. | v. <i>minor</i> Pils., xiii, 12. |
| v. <i>maculiferus</i> Pils., xiii, 5. | <i>hartogensis</i> Kobelt, xiv, 166. |
| v. <i>conispira</i> Pils., xiii, 5. | B. leeuwinensis Sm., xiii, 13. |
| B. martensi Kob., xiv, 166. | B. indutus Mke., xiii, 13. |
| B. spenceri Tate, xiii, 6. | ? <i>rhodostoma</i> Gray. |
| B. kingii Gray, xiii, 7. | v. <i>pallidus</i> Tate, xiii, 15. |
| <i>trilineata</i> Q. G. | B. bulla Mke., xiii, 15. |
| <i>sayi</i> Pfr. | B. baconi Bens., xiii, 16. |
| <i>quoyi</i> Cox. | B. angasianus Pfr., xiii, 16. |
| v. <i>solidus</i> Pils., xiii, 9. | B. mastersi Cox, xiii, 17. |
| v. <i>naturalistarum</i> Kob., | B. gunni Sowb., xiii, 18. |
| Conch. Cab., p. 781. | <i>tasmanicus</i> Pfr. |
| v. <i>maxwelli</i> 'Braz.,' Kob. | v. <i>brachysoma</i> Pils., xiii, 19. |

Genus PLACOSTYLUS Beck, 1837.

Manual XIII, p. 19. Type *P. fibratus* Martyn.

Chiefly large shells, the ground living species brown, often thick and ponderous, the arboreal species thinner and frequently variegated with green or white. Nepionic whorls thimble-punctate when unworn. Aperture and lip commonly orange-red.

The kidney (in *P. shongii*, pl. 51, fig. 15) is short and triangular, as long as the pericardium, with closed ureter and gut-ureter. The heart lies obliquely to the long axis of the lung. The capacious pulmonary vein bears no large branches. The first branch of the pericardial vein arises close to its origin, and is almost as conspicuous as the pulmonary vein, from which it is separated by the very long

first vein of the vena cava. The vena cava bears a second large vein which parts the two branches of the first branch of the pericardial vein. The general reticulation is faint, the veins mentioned having no large branches.

The free retractor muscles (of *P. shongii*, pl. 54, fig. 41, nat. size) are arranged as in the American *Bulimulidæ*. The right ocular retractor band arising from the face of the columellar muscle.

The genital system (pl. 51, fig. 23, *P. shongii*) is characterized by the very large size of the fleshy penis, at the distal end of which the short retractor muscle is inserted, its distal termination being on the lung floor. There is no internal papilla, but the walls are corrugated above (fig. 24), and bear a pilaster below (fig. 25). The vas deferens is imbedded in the superficial integument of the penis nearly to the base of the latter. The vagina is moderately long. The duct of the spermatheca is short, the uterus being fully double its length. A muscle binds the spermatheca to the oviduct. In *P. elobatus* (pl. 51, fig. 22, after Semper) Semper found a similar system, except that the penis and spermatheca duct are much shorter. *P. seemanni* and *P. fulguratus* have similar genitalia, all three being Fijian species. In *P. porphyrostomus* Fischer found the genitalia about as in *shongii*, except that the vagina and spermatheca with its duct are shorter. In *P. scarabus* the penis is shorter (J. de C., 1871, pl. 7).

The jaw is strongly arcuate, thick and brown, composed of many narrow plaits, converging toward the median line, the median plate wedge-shaped.

The radula is of the normal Helicid type. The central teeth have a strong mesocone, and small ectocones or none. The laterals are similar, but asymmetrical without an entocone. They gradually change to marginals by splitting of the mesocone. The radula of *P. shongii* I examined has about 20 lateral teeth on each side, followed by about 10 well-developed marginals, bordered by perhaps a dozen or more small irregularly developed and probably functionless marginal teeth. Semper found 120 to 158 teeth in a row in the Fijian species (Pl. 60, fig. 13, *P. fulguratus*, after Semper). There is a perceptible though not great difference in form between the marginal teeth of the Placostyles of Fiji and those of New Caledonia, Lord Howe Island and New Zealand.

Placostylus is typically Bulimuline in nepionic sculpture, teeth, jaw, kidney and free muscles. It varies from most American genera

in the shortening of the duct of the spermatheca, and the enlargement and evident functional importance of the first branch of the pericardial vein. The latter is well developed, however, in the American genus *Macrodontes*.

Section *Placostylus* s. str.

(Species of New Zealand.)

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| <i>P. shongii</i> Less., xiii, 22. | <i>v. novoseelandicus</i> Pfr., xiii, 24. |
| <i>bovinus</i> auct. | <i>neozelandicus</i> Hutton. |
| <i>auris-bovina</i> Petit. | <i>v. candidus</i> Crosse, xiii, 25. |
| <i>hongii</i> Suter, xiii, 235. | |

(Species of Lord Howe Island.)

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| <i>P. bivaricosus</i> Gask., xiii, 25. | <i>v. etheridgei</i> Braz., xiii, 26. |
| <i>v. cuniculinsulæ</i> Cox, xiii, 26. | <i>v. solidus</i> Eth., xiii, 27. |

(Species of New Caledonia and the Loyalty Is.)

Group of *P. bavayi*.

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| <i>P. eddystonensis</i> Pfr., xiii, 30. | <i>P. curtus</i> Cr., xiii, 33. |
| <i>hienguenensis</i> Crosse. | <i>layardi</i> Kob. |
| <i>servaini</i> Euthyme. | <i>P. savei</i> Cr., xiii, 33. |
| <i>P. bavayi</i> C. & M., xiii, 31. | <i>P. rossiteri</i> Braz., xiii, 34. |
| <i>v. dupuyi</i> Kob., xiii, 31. | |
| <i>P. bondeensis</i> C. & S., xiii, 32. | |
| <i>v. edentulus</i> C. & S., xiii, 32. | |

Group of *P. fibratus*.

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| <i>P. alexander</i> Cr., xiii, 35. | <i>P. fibratus</i> Martyn, xiii, 39, 235. |
| <i>v. procerula</i> , ouagapensis, | <i>B. alboroseus</i> , <i>bulbulus</i> , <i>car-</i> |
| <i>crassus</i> , <i>leucostoma</i> , <i>nigri-</i> | <i>bonarius</i> , <i>necouensis</i> , <i>in-</i> |
| <i>cans</i> Crosse, xiii, 36; | <i>fundibulum</i> , <i>superfasciatus</i> , |
| <i>patulus</i> Kob., xiii, 236. | <i>patens</i> , of Gassies; <i>B. f.</i> |
| <i>P. corpulentus</i> Gass., xiii, 37. | <i>pallidula</i> Crosse; <i>Voluta</i> |
| <i>P. abbreviatus</i> Gass., xiii, 37. | <i>australis</i> Dillw.; <i>H. auris-</i> |
| <i>P. kanalensis</i> Cr., xiii, 38. | <i>bovinus</i> Fér.; <i>Auricula</i> |
| <i>v. tchioensis</i> Kob., xiii, 38. | <i>aurantiaca</i> Schum.; <i>B.</i> |
| <i>thioensis</i> Cr. | <i>bootis</i> Mke. |
| <i>v. subeffusus</i> Kob., xiii, 39. | <i>v. pinicola</i> Gass., xiii, 42. |

- v. bovinus Brug., xiii, 42.
 v. bairdii Rve., xiii, 42.
 v. peculiaris Kob., xiii, 42.
 v. leucolenus Cr., xiii, 42.
 v. danieli Cr., xiii, 43.
 v. knoblauchii Kob., xiii, 43.
 v. insignis Pet., xiii, 43.
 v. ouensis Gass., xiii, 43.
 v. imbricatus Gass., xiii, 44.
 v. lalannei Gass., xiii, 44.
 v. grammicus Cr., xiii, 44.
 v. crassus 'Lay.' Kob., xiii, 45.
 aurismidæ Rve.
 v. ventricosus Kob., xiii, 45.
 v. ovalis Kob., xiii, 45.
 v. ovata Cr., xiii, 45.
 v. edwardsianus Gass., xiii, 45.
 v. strigatus Pils., xiii, 46.
 v. mareanus Cr., xiii, 46.
 turrita Kob.
 gareana Pfr.-Cless.
 P. arenosus Gass., xiii, 46.
- P. falcicula Gass., xiii, 46.
 P. ouveanus 'Dotz.' Mss., xiii, 47.
 sinistrorsus and *scalaris* Crosse.
 æsopeus Gass.
 v. lifouanus Cr., xiii, 48.
 v. albus Cr., xiii, 48.
 P. souvillei Morel., xiii, 48.
 eximeus Alb.
 P. lamberti Gass., xiii, 49.
 P. boulariensis Sowb., xiii, 50.
 P. guestieri Gass., xiii, 51.
 v. gatopensis Cr., xiii, 51.
 v. confusus Pils., xiii, 52.
 cicatricosus Kob.
 v. orientalis Kob., xiii, 52.
 v. rhinocheti Kob., xiii, 52.
 P. senilis Gass., xiii, 53.
 v. minor Kob., xiii, 53.
 v. subsenilis Gass., xiii, 53.
 P. buccalis Gass., xiii, 53.
 P. goroensis Souv., xiii, 54.

Group of *P. porphyrostomus*.

- P. submariei Souv., xiii, 55.
 v. *abbreviata* Souv.
 P. mariei C. & F., xiii, 55.
 v. simplex Cr.; v. *curtus*, Gass.
 P. neckliaiensis Kob., xiii, 56.
 P. porphyrostomus Pfr., xiii, 57.
 lessoni Pet.
 auris-bovina Rve.
 v. singularis Morel., xiii, 58.
 v. debeauxii Gass., xiii, 58.
 v. umbilicatus Kob., xiii, 236.
 P. monakensis Cr., xiii, 58.
 dautzenbergi Marie.
 P. duplex Gass., xiii, 59.
 v. major Gass.
 P. caledonicus Pet., xiii, 60.
 v. edentulus Braz., xiii, 61.
- P. poyensis Kob., xiii, 61.
 v. goyettensis Cr., xiii, 62.
 P. pseudocaledonicus Montr., xiii, 62.
 Forms intermedius Cr., subulatus Cr. (*nigra* Gass.), dentatus Gass., palus Gass., rufus Gass., incertus Cr., hybridus Kob., pouenanus Kob.
 v. chrysochilus Cr., xiii, 64.
 gaudryanus Gass.
 v. annibal Souv., xiii, 64.
 v. saxtoni Kob., xiii, 65.
 P. scarabus Alb., xiii, 65.
 v. tanouensis Cr., xiii, 66.
 v. smithii Kob., xiii, 66.
 v. goulvainensis Kob., xiii, 67.

Species of the New Hebrides.

- P. salomonis* Pfr., xiii, 69. *P. heterostylus* Pils., xiii, 72.
P. fuliginus Pfr., xiii, 70. *P. alienus* Pils., xiii, 72.

Species of New Guinea.

- P. remotus* Hedley, xiii, 76.

*Species of the Solomon Is.*Section *Placocharis* Pilsbry, 1900.

- Man. Conch., xiii, p. 21, 79. Type *P. macgillivrayi*. Solomon Is.

Group of *P. macgillivrayi*.

- P. founaki* H. & J., xiii, 79. *P. calus* Smith, xiii, 83.
hombroni Cr. *P. macgillivrayi* Pfr., xiii, 84.
v. *paletuvianus* Gass. *P. palmarum* Mss., xiii, 85.
rhizophorarus, etc., Gass. v. *minor* Kob., xiii, 86.
P. kreftii Cox., xiii, 81. *P. strangei* Pfr., xiii, 87.
P. guppyi Sm., xiii, 82. *P. stutchburyi* Pfr., xiii, 88.
P. macfarlandi Braz., xiii, 83. v. *mendanæ* Kob., xiii, 89.
brodiei Braz. *P. (?) coxi* Pse., xiii, 90.

Group of *P. scotti*.

- P. scotti* Cox, xiii, 90. *P. hargravesi* Cox, xiii, 93.
P. uliginosus Heimb. Kob., xiii, 91. v. *heimburgi* Kob., xiii, 93, 236.
v. *hobsoni* Cox, xiii, 237.

Section *Aspastus* Albers, 1850.

- Man. Conch., xiii, p. 94. Type *P. miltocheilus*. Solomon Is.
P. miltocheilus Rve., xiii, 94. v. *albolabris* Braz., xiii, 95, 236.
v. *stramineus* Braz., xiii, 95. *P. sellersi* Cox, xiii, 95.
v. *minor* Braz., xiii, 95.

Section *Eumecostylus* Albers, 1860.

- Man. Conch., xiii, p. 96. Type *P. cleryi*. Solomon Is.
P. cleryi Recl., xiii, 96, 236. *P. sanchristovalensis* Cox, xiii, 97.

*Species of the Fiji Is.*Section *Euplacostylus* Crosse, 1875.

- Man. Conch., xiii, p. 99. Type *P. seemanni*. Fiji Is.
P. seemanni Dohrn, xiii, 100. *P. koroensis* Garr., xiii, 101.
P. kantavuensis Cr., xiii, 101.

Section *Callistocharis* Pilsbry, 1900.

- Man. Conch., xiii, pp. 21, 102. Type *P. malleatus*. Fiji Is.
P. paeteli Kob., xiii, 102. *P. ochrostoma* Garr., xiii, 108.
moussoni Graeffe. v. *rambiensis* Garr., xiii, 108.
P. garretti Pils., xiii, 103. *P. pfeifferi* Kob., xiii, 109.
P. graeffei Cr., xiii, 104. *elobatus* var., Pfr.
colubrinus Mouss. *P. vitiensis* Garr., xiii, 110.
moussonii Graeffe. *P. gracilis* Brod., xiii, 110.
P. hoyti Garr., xiii, 105. *fulguratus* Jay.
P. elobatus Gld., xiii, 105. *eximius* Rve.
colubrinus Pfr. v. *rugatus* Garr., xiii, 112.
v. *albino* Pils., xiii, 106. v. *crassilabrum* Garr., xiii, 112.
P. guanensis Garr., xiii, 107. *P. malleatus* Jay, xiii, 112.
gnauensis Schmeltz. *P. morosus* Gld., xiii, 113.

Section *Leucocharis* Pilsbry, 1900.

- Man. Conch., xiii, pp. 21, 67. Type *P. pancheri*. Soft anatomy unknown. Distribution, New Caledonia and Loyalty Is.
P. pancheri Cr., xiii, 67. *P. loyaltiensis* Souv., xiii, 68.
v. *candida* Cr., xiii, 68. *P. porphyrochila* D. & B., xiv, 167.
v. *rubicunda* Dautz. et Bern.

Section *Pæcilocharis* Kobelt.

- Man. Conch., xiii, p. 73. Type *P. hartmani*. Distribution New Hebrides.
P. hartmani Kob., xiii, 73. *P. francoisi* Mab., xiii, 74.
rossiteri Hartm. *P. turneri* Pfr., xiii, 75.
hartmanni Kob. *P. hebridarum* Mab., xiii, 75.
P. bicolor Hartm., xiii, 74.

Subgenus *Diplomorpha* Ancey, 1884.

- Man. Conch., xiii, p. 114. Type *D. layardi*. New Hebrides.
P. layardi Braz., Hartm., xiii, 115. *P. coxianus* Pils., xiii, 118.
P. brazieri Hartm., xiii, 116. *coxi* Hartm.
P. peasei Cox, xiii, 117. *P. ruga* Hartm., xiii, 119.
P. delatouri Hartm., xiii, 117. *P. bernieri* Hartm., xiii, 119.

Sub-family ODONTOSTOMINÆ.

This vol., p. 24. As the anatomy of the genera of this group has been discussed in the present volume, and the species described, it would be superfluous to give a summary of them in this place.

The less specialized forms of *Odontostominæ* apparently had a wider geographic range in the past than any living genus of the sub-family. *Hyperaulax*, which is not greatly modified from *Bulimulus*, occurred in the Floridian Oligocene at the time when Florida was not connected with the North American continent, but had a purely Antillean snail-fauna.

The genera are as follows:

Genus MACRODONTES Swains., p. 29.

Genus ANCTUS v. Mart., p. 36.

Genus ODONTOSTOMUS Beck, pp. 38, 169.

Section *Moricandia* Pils. & Van., p. 40.

Section *Bahiensis* Jouss., p. 46.

Section *Cyclodontina* Beck, p. 58.

Section *Odontostomus s. str.*, p. 62.

Subgenus SCALARINELLA 'Doer.' Dohrn, p. 66.

Subgenus SPIXIA Pils. & Van., p. 67.

Subgenus PLAGIODONTES Doer., pp. 92, 171.

Genus HYPERAULAX Pils., p. 102.

Section *Bonnanius* Jouss., p. 103.

Genus TOMIGERUS Spix, p. 105.

Genus ANOSTOMA F. de Waldh., p. 109.

Section *Ringicella* Gray, p. 114.

Subfamily ORTHALICINÆ.

PILSBRY, Manual, xii, p. 99.

Shell imperforate with solid axis, varying from ovate to oblong-conic or pyramidal, the aperture ovate, toothless, columella simple and straight, or twisted or truncate below. Jaw composed of a small number (usually 14 to 20) of wide imbricating plaits. Teeth of the radula very numerous, part or all of them bearing broad gouge-shaped cusps. Cardiac side of the lung plain except near the pneumostome. Genitalia simple except for an appendix on the penis. Oviparous.

A natural group of tropical American snails, chiefly arboreal,

Bulimuline in their main features, but differing from the *Bulimulinæ* in the wholly imperforate shell, the appendix of the penis, developed in no other group of *Bulimulidæ*, the few broad and strongly imbricating plaits of the jaw, and a special modification of the teeth.

Synopsis of Genera.

I. Early whorls pitted.

a. Shell rather thin, capacious, with large, oblique aperture and simple, thin or somewhat thickened lip and columella, the former not expanded. Genus ORTHALICUS.

a¹. Shell solid, more lengthened, the aperture smaller, vertical or nearly so, the lips thick and blunt, or expanded or reflexed; columella usually with one or two folds.

s. g. *Metorthalicus*.

II. Early whorls smooth, or with some radial wrinkles.

a. Shell ovate-conic, usually with coloration of festooned dark stripes, and three equidistant bands. Aperture rather large, ovate and oblique, the lip simple and unexpanded, columella straight or somewhat convex, not truncate below, Vagina and spermatheca duct long.

Genus OXYSTYLA.

a¹. Shell ovate-conic, solid, with ovate aperture, the lip reflexed, expanded, or merely blunt and rather thick. Vagina and spermatheca duct short. Genus PORPHYROBAPHE.

a². Shell oblong-conic, with simple, thin-edged, unexpanded lip, the columella usually truncate below, either concave, folded or straight above.

Genus LIGUUS.

b. Shell white or bright-colored, with rather small apex. Antillean.

s. g. *Liguus*.

b¹. Shell dark colored, the columella concave above, abruptly truncate at the base. Colombia.

s. g. *Hemibulimus*.

b². Shell strong, the apex obtuse as though cut off, the columella bearing a callous fold above. Colors not vivid. South America.

s. g. *Corona*.

The genital system of the *Orthalicinæ* (plate 55) is Bulimuline in its main features, and shows no important differences in the various genera. The atrium is very short. The penis bears an accessory

gland or appendix, usually composed of several lobes in *Oxystyla*, *Liguus*, *Porphyrobaphe* and *Metorthalicus*, but reduced to an annular swelling in *Orthalicus*. The penis is continued in an epiphallus to which the retractor and vas deferens are attached distally. The vagina is quite long, except in *Porphyrobaphe*. The small globose or ovate spermatheca lies near the heart, its duct being very long except in *Porphyrobaphe*, where the duct is much shorter than the uterus.

The kidney is small and triangular, as short as the pericardium, as in all *Bulimulidæ*. The lung is much lengthened, with a large, straight pulmonary vein with only very small branches. The pericardial vein is small, and gives forward but one large branch. Only the first, or right main branch of the anterior vena cava is well developed. The minor reticulation is confined to the intestinal side of the lung, and the anterior extreme of the opposite side, between the base of the first main branch of the vena cava and the end of the pulmonary vein; the rest of the cardiac side being free from visible reticulation (pl. 53, fig. 34, *Oxystyla undata jamaicensis*).

The free muscles resemble those of *Bulimulus* in general arrangement. The pharyngeal retractor unites at its proximal end with the left tentacular band, although both are free almost throughout. The pedal retractors are strongly developed, branching from both the right and left bands. The right tentacular retractor arises from the anterior face of the columellar muscle (pl. 54, fig. 36, *Oxystyla undata jamaicensis*).

The jaw (pl. 60, figs. 17, 18), is composed of a solid basal layer upon which the wide, imbricating plates of the anterior face are superposed. These plates seem to be free at their outer edges, which converge below towards the median line, but they are covered by a transparent outer layer, which is more or less costate vertically in some forms. The edges of the ribs alone are visible, by transmitted light, as in pl. 60, figs. 17, 18. The central plate may be either triangular or irregularly pentagonal, with the point downward.

The radula is very broad, with 170 to over 200 teeth in a transverse row, the rows widely V-shaped. The teeth have square basal plates, which in the median portion of the radula bear very broad, rounded or truncate cusps, longer than the basal plates and projecting beyond it on the sides. This cusp is to be regarded as compound, being composed of completely con crescent ento-meso- and ecto-cones

(pl. 56, fig. 58). Towards the sides a small ectocone gradually makes its appearance, becoming somewhat conspicuous on the outer marginal teeth, and the entocone is usually indicated by a slight notch in the cusp (pl. 56, fig. 57, 53).

This type of teeth resembles the *Zaplagius* type superficially, but differs fundamentally in that the ectocone is united with the mesocone, while in *Zaplagius* it is always distinct.

The broad, shovel-shaped type of cusp described above is sometimes replaced on the median and a few adjacent lateral teeth by long, lanceolate cusps. This modification has been observed in *Liguus virgineus*, L. (*Hemibulimus*) *magnificus*, *Orthalicus sultana* and *atramentarius*, *Oxystyla ferussaci* and *princeps*, though some individuals of the latter have the normal type of teeth. In my opinion, these lanceolate teeth have been modified from the rounded type, secondarily assuming a pointed shape; this view being based upon the general law of tooth-changes set forth in Vol. IX, p. xiii. The species of various genera possessing such teeth are unrelated, and have acquired them clearly by a parallel process. In *Oxystyla princeps*, as Strebel & Pfeffer have shown, the form of the cusps is not a constant specific character. The same is true of *Liguus*.

Genus OXYSTYLA Schlüter, 1838.

Vol. xii, p. 101. Synonyms are *Zebra* SHUTTL., 1856, *Ortalichus* Martens, 1893, and *Orthalicus* of writers on North American species.

While the other genera are restricted in distribution, *Oxystyla* extends throughout the tropical and subtropical regions of both Americas, though in South America the species are more numerous and diversified.

The kidney and lung (pl. 53, fig. 34, *O. undata jamaicensis*), retractor muscles (pl. 54, fig. 36, *O. u. jamaicensis*) and jaw have been treated of under the subfamily head. The radula has about 100.1.100 teeth in *O. u. jamaicensis* (pl. 56, figs. 57, 58), the cusps being broad and rounded as usual. Most of the species investigated have similar teeth. In some forms of *O. princeps* and *O. ferussaci* (pl. 59, fig. 7, after Strebel) the middle and some adjacent lateral teeth have lanceolate cusps. When this is the case, the number of teeth so modified was found to be unequal on the two sides.

The jaw (pl. 60, fig. 18, *O. longa*) has been described above. The number of plaits varies in different species.

The genitalia (pl. 55, fig. 42, *O. princeps*, fig. 44, *O. u. jamaicensis*; fig. 46, *O. pulchellus*) are characterized by the very long duct of the spermatheca, both penis and vagina being of moderate length. The penis always bears a small accessory gland or appendix, which is usually parted in two lobes, which are subdivided in some forms.

Antillean Species, Trinidad to S. Florida.

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| <i>O. undata</i> Brug., xii, 105. | v. <i>jamaicensis</i> Pils., xii, 107. |
| <i>zebra</i> auct. | v. <i>reses</i> Say, xii, 109. |
| <i>A. undulata</i> Gldg. | v. <i>floridensis</i> Pils., xii, 110. |

Species of Mexico and Central America.

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| <i>O. princeps</i> Brod., xii, 113. | <i>O. zonifera</i> Streb., xii, 123. |
| v. <i>trifracta</i> Pils. | v. <i>nobilis</i> Rolle. xiv, 164. |
| v. <i>crossei</i> Mart. | <i>O. livida</i> Mart., xii, 124. |
| v. <i>fischeri</i> Mart. | <i>O. macluræ</i> Mart., xii, 125. |
| v. <i>elegans</i> Rolle. xiv, 164. | <i>O. longa</i> Pfr., xii, 126. |
| Subsp. <i>deceptor</i> Pils., xii, 116. | v. <i>strebli</i> Pils., xii, 128. |
| <i>obductus</i> auct. | v. <i>boucardi</i> Pfr., xii, 128. |
| <i>O. livens</i> Shutt., xii, 118. | v. <i>uhdeana</i> Mart., xii, 129. |
| <i>O. ferussaci</i> Mart., xii, 119. | <i>O. leucochilus</i> F. & C., xii, 129. |
| v. <i>tricincta</i> Mart., xii, 120. | <i>O. ponderosa</i> Streb., xii, 130. |
| <i>O. melanocheilus</i> Val., xii, 122. | <i>O. decolor</i> Streb., xii, 131. |

South American Species.

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| <i>O. obducta</i> Shutt., xii, 134. | <i>O. mars</i> Pfr., xii, 143. |
| <i>O. pulchella</i> Spix, xii, 135. | <i>O. varia</i> Mart., xii, 144. |
| v. <i>prototypus</i> Pils., xii, 137. | <i>B. phlogerus</i> auct. |
| <i>O. maracaibensis</i> Pfr., xii, 137 ; | <i>A. flogera</i> P. & M. |
| xiv, 164. | <i>O. phlogera</i> Orb., xii, 145 ; xiv, |
| <i>f. imitator</i> Pils., xii, 140. | 165. |
| v. <i>subpulchella</i> Pils., xii, 141. | <i>O. macandrewi</i> Sowb., xii, 147. |
| <i>O. fulvescens</i> Pfr., xii, 141. | <i>O. bensoni</i> Rve., xii, 147. |
| <i>O. isabellina</i> Mart., xii, 142. | |
| <i>O. bifulgurata</i> Rve., xii, 143. | |
| <i>Z. fulgur</i> Mill. | |

Genus PORPHYROBAPHE Shuttl., 1845.

Manual xii, p. 149. Shell resembling *Oxystyla*, but more solid, with the peristome thick and blunt or reflexed. The nepionic shell is smooth, not pitted. Type *P. iostoma*.

Jaw (of *P. iostoma*, according to Fischer) composed of 19 plaits. Radula with 85.1.85 teeth, like those of *Oxystyla*. Genitalia (pl. 55, fig. 45, after Fischer) with the penis and vagina short, the gland or appendix of the penis large and lobed. The duct of the spermatheca is about half the length of the oviduct.

This genus differs from *Oxystyla* chiefly in the shortness of the spermatheca duct and vagina, and the thick or blunt lip of the shell. Distribution, northwestern Peru to Colombia.

Group of P. iostoma.

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| <i>P. iostoma</i> Sowb., xii, 150. | <i>P. saturnus</i> Pfr., xii, 153. |
| <i>phasianella</i> Val. | <i>P. flori</i> Jouss., xiv, 164. |
| v. <i>bilabratus</i> Pils., xii, 152. | <i>saturanus</i> and <i>satuanus</i> Pfr. |
| <i>P. integer</i> Pfr., xii, 153. | |

Group of P. irroratus.

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| <i>P. irroratus</i> Rve., xii, 155. | <i>P. grevillei</i> 'Sow.' Pfr., xii, 156. |
| v. <i>elongata</i> Mill., xii, 156. | <i>P. iris</i> Pfr., xii, 157. |
| v. <i>minor</i> Mill., xii, 156. | <i>wallisianus</i> Mouss. |
| <i>P. subirroratus</i> DaC. xiv, 163. | |

Group of P. dennisoni.

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| <i>P. dennisoni</i> Rve., xii, 158. | ? <i>P. victor</i> Pfr., xii, 160. |
| v. <i>marmatensis</i> Pils., xii, 159. | |
| v. <i>obscurata</i> Mss., xii, 159. | |

Genus LIGUUS Montfort, 1810.

Manual xii, p. 161. Long-conic, smooth shells, white, usually variegated in bands or streaks with pink, green or yellow, cuticle inconspicuous or absent; outer lip simple, not expanded; columella usually truncate below, sometimes continuous with the basal lip. The typical group inhabits the Greater Antilles, subgenera occurring in northern South America. The species so far as known are arboreal.

The mantle-edge (of *L. fasciatus*) bears two conspicuous flange-like lobes, one dorsal, the other along the left margin, and separated from the neck-lobe by a narrow notch. The kidney is short and triangular, with completely closed secondary ureter, as in *Oxystyla*. The reticulation of the lung is substantially as in *Oxystyla*, except that the first branch of the pericardial vein is longer, about as long as the pulmonary vein. The venation of the cardiac side of the lung is weak and sparse.

The genital system resembles that of *Oxystyla*, except that the appendix is decidedly larger, though of the same character. The penis retractor muscle is inserted on the floor of the lung. The duct of the spermatheca is as long as the oviduct. The right eye retractor passes between male and female branches of the genitalia.

The jaw (pl. 60, fig. 17, *L. fasciatus*, Miami, Fla.) is similar to that of *Oxystyla*, composed of 16 plates, the median one small and triangular.

The radula is very broad, as in other *Orthalicinæ*, with broadly V-shaped rows of teeth. The teeth are somewhat less numerous than in *Oxystyla*, *L. fasciatus* having from 76.1.76 in a specimen I counted, to 69.1.69 according to Binney. The same author found 40.1.40 teeth in *L. virgineus*. The teeth are closely crowded near the middle of the radula (fig. 23), much more separated near the margins (fig. 23). The cusps of the central and first lateral teeth of *L. fasciatus* are elongate and pointed on the younger (posterior) end of the radula of a specimen from Miami, Fla. (pl. 61, fig. 22); over the median, functional portion of the radula the cusps are more obtuse and rounded (pl. 61, fig. 23); and anteriorly still more so. The laterals become wider, with a much broader, obtuse cusp; the ectocone, at first indicated by a slight sinuation, gradually becoming separated from the mesocone on the outer portions of the radula (pl. 61, fig. 23, teeth 67-69). The entocone is likewise indicated by a more or less pronounced notch on the outer teeth. In a radula of the same species, from Cardenas, Cuba, the central and lateral teeth are more obtuse, and Binney so figures them. In *L. virgineus* the central and first two lateral teeth were found to have long and somewhat pointed cusps (pl. 56, fig. 56, after Binney, central with 5 adjacent laterals, and the 39th and 40th teeth).

L. virgineus is from Haiti, the others from Cuba; *fasciatus* occurring also in southern Florida and Cozumel Island, off Yucatan.

L. virgineus L., xii, 162.

A. virginia Blv.

A. vexillum Humph.

A. emarginata Swains.

Ch. vittata Humph.

Helix regina Bowd., xiv, 165.

L. poeyanus Pfr., xii, 166.

L. blainianus Poey, xii, 174.

L. fasciatus Müll., xii, 166.

B. vexillum Brug., *A. pallida*
and *crenata* Swains., *A. anais*
Less., *A. lineata* Val., *A.*
lutea Ant., *A. murrea* Rve.,
A. picta Rve., *H. hepatica*
Bolt., *A. solida* Say.

Subgenus CORONA Albers, 1850.

A South American group of rather large, solid, lengthened species, either dextral or sinistral, the columella more or less truncate or excised at base, twisted and bearing a callous fold above. Soft anatomy unknown. Type *L. regina*, Fér.

Corona is considered by Mr. E. A. Smith to be more nearly related to the group of *Metorthalicus atramentarius* than to *Liguus*. Cf. Proc. Malac. Soc., v, p. 170.

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| <i>L. regina</i> Fér., xii, 177. | <i>L. incisus</i> Hupé, xii, 179. |
| <i>A. melastoma</i> Swains. | <i>L. regalis</i> Hupé, xii, 180. |
| <i>A. melanostoma</i> Gray. | <i>regina</i> auct. |
| <i>O. rex dextrorsus</i> Bk. | v. <i>loroisianus</i> Hupé, xii, 183. |
| <i>L. perversus</i> Swains., xii, 178. | <i>L. pfeifferi</i> Hid., xii, 146. |
| <i>O. rex sinistrorsus</i> Bk. | v. <i>gracilis</i> E. A. Sm., 1902. |

Subgenus HEMIBULIMUS Martens, 1885.

Fusiform, dark-colored, with obtuse apex, the first whorl finely wrinkled. Columellar margin concave, distinctly truncated at base. The jaw (pl. 56, fig. 50) is composed of 13 imbricating plates, the median one reaching the basal margin. Radula with 62.2.1.2.62 teeth. The centrals are much lengthened, with a long, lanceolate mesocone and vestigial side cusps. Two laterals on each side are similar, but asymmetrical. The rest of the teeth are short and broad, with quadrate base, very wide, short cusps, and a minute ectocone. The outermost marginals become tricuspid (pl. 56, figs. 51, 52, 53).

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| <i>L. magnificus</i> Pfr., xii, 185. | Andes of Colombia. |
| v. <i>excisus</i> Mart., xii, 185. | |

Genus ORTHALICUS Beck, 1837.

Man. Conch. xii, p. 186. Strebel & Pfeffer, Beitr. Mex. Land-u. Süßwasser-Conchyl., Theil v, p. 2 (anatomy of *O. sultana*). W. G. Binney, Ann. Lyc. N. H. of N. Y. xi, p. 38 (anatomy).

In *O. sultana* from Guiana, Strebel found the right neck-lobe of the mantle strongly developed; the left forms a continuous rim around the entire mantle. The genital system (pl. 55, fig. 43) has the general characters of other genera of the sub-family, except that the appendix of the penis is represented by a circular swelling. The latter was not noticed by Binney, who examined a specimen from Marañon, Peru.

The jaw is composed of 15 plaits, the median ones not reaching the lower margin. The radula (pl. 56, fig. 55, *O. sultana* from Marañon, after Binney) has over 108.1.108 teeth. The central and inner three laterals on each side have rather narrow basal-plates, and long, lanceolate cusps. The rest of the teeth are wide, with broad, short, rounded cusps, as usual in the subfamily.

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| <i>O. sultana</i> Dillw., xii, 188. | <i>O. meobambensis</i> Pfr., xii, 191. |
| <i>H. gallina sultana</i> Chemn. | <i>O. trullisatus</i> Sh., xii, 191. |
| <i>O. sultana</i> Beck. | |
| <i>A. pavonina</i> Spix. | |

Subgenus METORTHALICUS Pils.

The anatomy of *O. atramentarius* has been examined by Strebel and Pfeffer. The lower portion of the penis is much swollen; it bears a large appendix, which is slightly lobed distally (pl. 55, fig. 48, 47, section of penis and appendix, f. 49, appendix). The median plaits of the jaw are markedly triangular. The radula (pl. 56, fig. 54) has the central tooth, three laterals on one side and four on the other, of the narrow, lanceolate shape which occurs in *O. princeps*, *O. sultana*, *Liguus virgineus* and *magnificus*; the other teeth being of the usual broadly rounded form.

Group of *O. fraseri*.

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| <i>O. buckleyi</i> Higg., xii, 193. | <i>O. galactostoma</i> Anc., xii, 194. |
| <i>O. fraseri</i> Pfr., xii, 193. | <i>O. augusti</i> Jouss., xii, 195. |
| <i>v. brevispira</i> Pils., xii, 194. | |

Group of *O. deburghiæ*.

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| <i>O. deburghiæ</i> Rve., xii, 196. | <i>O. wrzesniowskii</i> Lub., xii, 198. |
| <i>gloriosus</i> Pfr. | <i>O. maranhonensis</i> Alb., xii, 198. |
| <i>v. elongata</i> Mill., xii, 198. | |

Group of *O. labeo*.

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| <i>O. labeo</i> Brod., xii, 199. | <i>O. yatesi</i> Pfr., xii, 202. |
| <i>O. vicarius</i> Fult., xii, 200. | <i>v. sublabeo</i> 'Dohrn' Anc. |
| <i>labeo</i> Rve. | <i>v. latevittata</i> Shutt. |
| <i>O. shuttleworthi</i> Alb., xii, 201. | <i>O. kelletti</i> Rve, xii, 204. |
| | <i>v. fungairinoi</i> Hid., xii, 204. |
| | <i>jatesi</i> Hupé. |

Group of *O. atramentarius*.

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| <i>O. powisianus</i> Pet., xii, 206. | <i>O. atramentarius</i> Pfr., xii, 209. |
| <i>O. adamsoni</i> Gray, xii, 207. | <i>boussingaultii</i> Hupé. |
| f. <i>maculatus</i> Pils., xii, 208. | <i>iodes</i> Shuttl. |
| <i>O. approximatus</i> Fult., xii, 209. | |

Subfamily AMPHIBULIMINÆ.

Manual xii, p. 211. This group includes *Bulimulidæ* in which the shell is more or less degenerate, *Succinea*-shaped, *Haliotis*-shaped, or in the less modified forms, globose or ovate; always thin and mainly cuticular.

The group is a provisional one in its present limits, and probably composed of two independent lines of specialization: one from the *Drymæus*, *Zaplagius*, *Oxychona* radical, leading to *Simpulopsis* and *Peltella*; the other perhaps diverging from a *Bulimulus*-like stem, including *Amphibulima* with its satellite groups, and *Gæotis*.

Genus SIMPULOPSIS Beck, 1837.

Manual xii, p. 212.

The jaw is unknown, but probably like that of *Drymæus*. The radula of *S. sulculosa* has V-shaped rows of 70 teeth each, obliquely running forward, as in *Zaplagius* and the *Orthalicinæ*. The rhachidian tooth has a single conic cusp. The laterals have the mesocone much expanded, broad, ectocone small but well developed. The marginal teeth (fig. 12) resemble those of *Drymæus* and *Peltella*, having an oblique, trifid, broad cusp, the ectocone split (pl. 62, fig. 34, *S. sulculosa*, after Heynemann). The soft anatomy is otherwise unknown.

The species of the typical section are from Brazil, south of the Amazon, except *corrugata* from Trinidad and *vincentina* from St. Vincent.

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| <i>S. atrovirens</i> Moric., xii, 213. | <i>S. rufovirens</i> Moric., xii, 216. |
| <i>S. sulculosa</i> Fér., xii, 214. | <i>rufescens</i> H. & A. Ad. |
| <i>membranacea</i> Mich. | <i>S. corrugata</i> Gupp., xii, 217. |
| <i>S. brasiliensis</i> Moric., xii, 215. | <i>S. miersi</i> Pfr., xii, 218. |
| <i>obtusa</i> Pfr. | <i>S. tryoni</i> Pils., xii, 218. |
| <i>S. obtusa</i> Sowb., xii, 216. | <i>S. decussata</i> Pfr., xii, 218. |
| <i>ovata</i> Sowb. | <i>S. (?) vincentina</i> Sm., xii, 219. |

Mexican Species.

S. simula Morel., xii, 219. *S. cumingi* Pfr., xii, 220.

Section BULIMULOPSIS Pils., 1899.

Manual xii, p. 220. The soft anatomy of this group is unknown. Type *S. pseudosuccinea*. The species are Brazilian.

S. pseudosuccinea Moric., xii, 221. *S. boissieri* Moric., xii, 222.
 moriciandi Pfr. *S. progastor* Orb., xii, 223.
S. citrinovitrea Moric., xii, 221.
B. vitrinoides Rve.

Subgenus PLATYSUCCINEA Ancey, 1881.

Manual xii, p. 223. *S. ænea* is Mexican, the other species Antillean.

S. portoricensis Shutt., xii, 224. *S. dominicensis* Pfr., xii, 225.
S. psidii Mart., xii, 224. *S. ænea* Pfr., xii, 225.

Genus PELTELLA Webb and Van Beneden, 1836.

Manual, xii, p. 231. v. Ihering, Malak. Blätter (n. F.), viii, p. 57 (anatomy).

Slug-like, with the mantle large posterior, elevated, and perforate over a *Halotis*-shaped fragile shell, consisting of between $1\frac{1}{2}$ and 2 whorls. The jaw is highly-arched, closely plaited, very narrow in the middle (pl. 62, fig. 36). The radula is large, with 93.1.93 teeth in nearly straight transverse rows. The basal plates of the teeth are rhombic. Median tooth unicuspid, laterals with three cusps, as in *Drymæus* (pl. 61, fig. 26). The genital system (pl. 62, fig. 37) resembles that of *Bulimulus* except that the duct of the spermatheca is very short. The free retractor muscles are shortly united proximally. The columellar muscle is apparently degenerate. An excellent account of the anatomy has been given by Von Ihering, who first referred *Peltella* to the *Bulimulidæ*.

The genus is very distinct in many respects, and especially in the shortness of the duct of the spermatheca, the anal pouch, apparent absence of the columellar muscle, and of course the modifications consequent upon the reduction of the shell. The teeth of the radula seem to be almost identical in form with those of *Drymæus*.

P. palliolum Fér., xii, 231. Brazil, near Rio de Janeiro.

Genus AMPHIBULIMA Lamarck, 1805.

Manual, xii, p. 232. Type *A. patula* Brug. *Amphibulia* RAFINESQUE, Binney & Tryon edit., p. 17.

Shell Succinea-shaped; $1\frac{1}{2}$ apical whorls corrugated in the typical forms, smooth in s. g. *Pellicula*.

In *Amphibulima patula christopherei*, the kidney (pl. 62, fig. 27, K) is longer than the pericardium, its apex covered with venous reticulation. The ureter and secondary ureter (fig. 27, Ur.) are closed. The reticulation of the lung is anterior and on the gut or intestinal side, but extends further on the cardiac side than in *Bulimulinae*. The pulmonary vein seems to receive a large branch near its cardiac end. The reticulation spreads over the base of the pulmonary vein and the adjacent apex of the kidney. The greater part of the cardiac side of the lung is plain or weakly veined, as usual in the family.

The retractor muscles are essentially Bulimuline. The pharyngeal retractor spreads but is not split distally, at its insertion on the large buccal mass. At its base it is shortly united to the proximal end of the left ocular and pedal band. The right ocular band arises from the anterior surface of the broad columellar muscle, and retracts the eye through the branches of the genitalia. The connections of the muscles thus agree in all respects with *Bulimulus*, *Placostylus*, etc. (pl. 62, fig. 29).

The genital system (pl. 62, fig. 28) shows a short and very wide vagina and penis, the vas deferens inserted near, the retractor muscle at, the distal end. The duct of the spermatheca is very long and slender, abruptly swollen at its base and bound to the oviduct throughout. The albumen gland is small, the ovisperm duct being knotted adjacent to it. The ovo-testis is a large, compact mass of long, dichotomose cæca.

The jaw is horse-shoe-shaped, thin and flexible, composed of many (50-56) narrow plaits, the median ones not reaching the lower margin in the specimen examined by me (pl. 62, fig. 30, *A. patula* var. *christopherei*).

The radula of a St. Kitts specimen (*A. patula christopherei*, pl. 60, figs. 11, 12) is comparatively large, composed of about 160 teeth in a transverse row, the formula being 62.17.1.17.62, the 15th to 20th teeth on each side being transitional from laterals to the marginal type. The central row bears teeth with well expanded basal plates,

broad, rounded mesocones, and well developed ectocones. The laterals are similar, but asymmetrical by suppression of the entocone, as usual (pl. 60, fig. 11). The ectocone gradually increases, until on the transition teeth (left side of fig. 11) it is not greatly smaller than the mesocone. The inner marginals (last tooth to the left in fig. 11) have two subequal cusps. The outer marginal teeth (fig. 12) have three or four slender denticles, on a long, curved basal-plate, which on the outermost teeth is indistinguishable from the basement membrane except near the cusps.

Binney found substantially the same type of teeth in St. Kitts examples. Those from Dominica have a longer, pointed cusp on the central tooth, while Fischer found the cusps long and conic in the Guadalupe form, which with the same number of teeth in a transverse row has 20 laterals. The central teeth have no ectocones, according to Fischer. These divergencies indicate racial differentiation on the several islands, thus:—

a. Cusps of central and adjacent teeth pointed. *A. patula* and var. *dominicensis*.

b. Cusps of central and adjacent teeth broadly rounded or truncate; St. Kitts. Var. *christopherei* Pils.; pl. 60, f. 11, 12; pl. 62, f. 27–30.

A. patula is from Guadalupe and Marie-Galante, with varieties in Dominica, St. Kitts and Saba; *A. tigrina* is said to be from St. Vincent; *A. pardalina* and *A. browni* from Dominica, and *A. rawsonis* from Montserrat.

A. patula Brug., xii, 234.

A. tigrina Les. xii, 237.

cucullata Lam.

A. pardalina Gupp., xii, 237.

v. *dominicensis* Pils., xii, 237. *A. browni* Pils., xii, 238.

v. *christopherei* Pils., above. *A. rawsonis* Bld., xii, 239.

Subgenus RHODONYX Fischer, 1873.

Shell immaculate, rose-tinted, *Succinea*-shaped. Jaw (pl. 62, fig. 32) similar to that of *Amphibulima*, having 60–63 plaits. Radula (pl. 61, fig. 25, after Binney) with 47.13.1.13.47 teeth. The central tooth is tricuspid, middle cusp very large and broad, emarginate or truncate at the apex, side cusps pointed. The latter and inner marginal teeth are similar but without the entocone. The outer marginal teeth have long, narrow basal plates, like those of *Amphibulima*, and tridentate

cusps, the two outer denticles larger, as in *Gæotis*. Genital system similar to that of *Amphibulima*.

A. rubescens Dh. xii, 240. Martinique.

Subgenus PELLICULA Fischer, 1856.

Shell oval, *Succinea*-like, smooth, with extremely large aperture and small spire, composed of less than two whorls; columella with a thin, blade-like appendage. Animal externally almost slug-like, the mantle reflexed over the shell (pl. 62, fig. 33, *A. appendiculata*, after Fischer).

The jaw resembles that of *Amphibulima* but has fewer plaits, 40 in *appendiculata*, 23 in *depressa*. The radula of *appendiculata* has 32.12.1.12.32 teeth. These centrals are tricuspid, the mesocone long and pointed; laterals with broader, shorter, but still conic cusps (pl. 62, fig. 31, after Binney). The genital system (pl. 62, fig. 35, *A. appendiculata*, after Fischer) is almost exactly like that of *Amphibulima patula*. Both species are from Guadalupe.

A. appendiculata Pfr., xii, 241. *A. depressa* Rang, xii, 242.

Genus GÆOTIS Shuttleworth, 1854.

Manual xii, p. 227.

The jaw is extremely thin and delicate, with over 40 narrow plaits, as in *Drymæus* and *Urocoptis*, but with no triangular area in the middle (pl. 61, fig. 24, after Binney).

The radula is composed of V-shaped rows of teeth (pl. 61, fig. 24). "Centrals with base of attachment very long, narrow, obtuse above, incurved at the sides, obtusely rounded and expanded at base [posterior end], near which is a short, gouge-shaped expanded cusp, whose lower edge has three bluntly rounded cutting points. Laterals same as centrals in shape, but a little longer, and asymmetrical from the disproportionate expansion of the cutting-point. Marginals same as laterals, but more slender, with more developed and graceful cutting-points, of which the median is pointed, often bifid. There is much variety in shape and denticulation of the cusps. The middle denticle is always the smallest" (*Binney*).

The form of teeth shows a relationship to *Amphibulima*. All the species known are from Porto Rico.

G. nigrolineata Shuttl., xii, 229. *G. malleata* Pils., xii, 230.

G. flavolineata Shuttl., xii, 229. *G. albopunctulata* Shuttl., xii, 230.

ERRATA.

Draparnaudia gassiesi. New name for *Bulimus turgidulus* Gassies (xiv, 16. 17), not *B. turgidulus* Desh. 1864.

Draparnaudia sinistrorsa Dh. xiv, 15. *Bul. sinistrorus* Dh. is preoccupied by *B. sinistrorsus* Serres.

Helicostyla fasciata Pils. This name will replace that of *Bulimus effusus* Pfr., viii, p. 31, not *B. effusus* Bruguiere.

Strophocheilus martensianus. New name for *Bulimus grandis* Martens (x, 26), not *B. grandis* Deshayes.

Bulimulus nanus Rve., x, 141. The name is preoccupied by Lamarck.

Bulimulus terebralis Pfr. x, 142, not of Bruguiere, will become *Bulimulus ischnus* Pils.

Bothriembryon inflatus Lam. xiii, p. 3. Name preoccupied by *Bulimus inflatus* Olivier, Voy. Emp. Oth., I, 417. It has been called *B. ovum* by Gistel and others.

Drymæus conus Pils. New name for *B. coniformis* Pfr. xi, 276, not of Bruguiere.

Vol. XIV, p. 105, lines 3 and 4 from top, for "Bounanni" read Buonanni.



INDEX TO BULIMULIDÆ, ETC.

NOTE.—Names of additional species originally described as *Bulimus*, will be found in the indices to *Achatinidæ* and *Buliminus*.

Names of genera and other groups are printed in SMALL CAPITALS; of synonyms in *Italic*. Numbers in black refer to the pages of the present part.

A		
<i>abbreviata</i> Gass. xiii, 58.	54	<i>aethiops</i> Morel. = <i>limicolaria</i> .
<i>abbreviata</i> Souv. xiii, 55.	54	<i>aevolongus</i> Boub. = <i>longævus</i> Serr.
<i>abbreviatus</i> Coop. xi, 153.	36	<i>affinis</i> Brod. x, 177.
<i>abbreviatus</i> Gass (Plac.), xiii, 37.	53	<i>affuvelensis</i> Orb. = <i>Glandina</i> af.,
<i>abscissus</i> Pfr. xi, 240.	42	Math.
<i>abyssorum</i> Orb. xi, 192; xiv, 154.	41	<i>aguirrei</i> Doer. xi, 320.
<i>acalles</i> Pfr. x, 160.	25	<i>alauda</i> Hupe. xi, 23.
<i>accelerans</i> Mart. x, 22.		<i>alausensis</i> Cous. x, 180.
<i>acervatus</i> Pfr. xi, 255.	43	<i>alba</i> Sm. x, 197; xiv, 123.
<i>achalanus</i> Doer. xiv, 78.		<i>alba</i> Sowb. xi, 38.
<i>achatellinus</i> Fbs. xi, 99.	33	<i>alberti</i> Brod. (Bulinus) vii, 199.
<i>achatinellinus</i> Pfr. xi, 99.	33	<i>albicans</i> Brod. x, 175.
<i>achatinellus</i> Ads. xi, 99.	33	<i>albicans</i> Maze xii, 16.
<i>achatinus</i> Brug. = <i>Achatina</i> .	33	<i>albicolor</i> Morel. x, 148.
<i>achilles</i> Pfr. x, 51.	21	<i>albidozonulata</i> Gass. xiv, 16.
<i>acholus</i> Mab. xi, 143.	35	<i>albidus</i> Lam. 1804.
<i>acicula</i> Brug. = <i>Cæcilioides</i> .		<i>albidus</i> Tayl. xi, 134.
<i>acicularis</i> Lam. 1804.		<i>albidus</i> Wr. xii, 3.
<i>aconjigastanus</i> Doer. xiv, 76.		<i>albino</i> Pils. xiii, 106.
<i>acquensis</i> Math. = <i>Glandina</i> .		<i>albinus</i> Grat. viii, 36.
<i>acromelas</i> Morel. x, 144.	24	<i>albizonatus</i> Rve. xiv, 7.
<i>acuminatus</i> Pfr. viii, 28.		<i>albobalteatus</i> Dkr. = <i>Achatinidæ</i> .
<i>acuticostatus</i> Orb. = <i>Melaniella</i> .		<i>albocœrulescens</i> Bav. xiii, 184.
<i>acutus</i> Brug. = <i>Cochlicella</i> .		<i>albofilosus</i> Dohrn xiv, 50.
<i>acutus</i> Lch. xi, 38.		<i>albolabiatus</i> Fult. (Amph.) xiii, 213.
<i>acutus</i> Reib. xi, 112.	34	<i>albolabiata</i> Sm. (Stroph.) x, 197;
<i>adamsoni</i> Beck xii, 148.		xiv, 123.
<i>adamsoni</i> Gray xii, 207.	66	<i>albolabiatus</i> Sm. (Dry.) xi, 201.
<i>adamsi</i> Rve. xiii, 221.		<i>albolabris</i> Braz. xiii, 95, 236.
<i>adoptus</i> Rve. x, 43.		<i>albopunctulata</i> Sh. xii, 230.
<i>aegle</i> Brod. (Bulinus) viii, 40.		<i>alboroseus</i> Gass. xiii, 40.
<i>aegotis</i> Pfr. x, 113.		<i>albostratus</i> Streb. xii, 72.
<i>aegotis</i> Mke. x, 114.		<i>albus</i> Cr. (Plac.) xiii, 48.
<i>aenea</i> Pfr. xii, 225.	67	<i>albus</i> Sowb. x, 174.
<i>aequatorianus</i> Sm. xi, 220.	41	<i>alcantara</i> Bern. xii, 33.
<i>aequatorius</i> Pfr. xi, 30.	28	<i>aldunatea</i> Hupe, xi, 8.
<i>aeosopus</i> Gass. xiii, 48.	54	<i>alexander</i> Cr. xiii, 35.
<i>aestivus</i> Pfr. xi, 234.	42	<i>algitus</i> Brug. = <i>Glandina</i> .
		<i>alienus</i> Pils. xiii, 72.
		<i>almeida</i> Spix. x, 7; xiv, 117.

- alsophilus Ph. xi, 285.
 alta Dall xi, 149.
 alternans Bk. xii, 86.
 alternatus Pbs. xii, 87.
 alternatus Say xi, 132; xiv, 152.
 alticola Bttg. xiii, 147.
 altoperuvianus Rve. xi, 173.
 alutaceus Rve. x, 59.
 alvarezii Orb. xiv, 84.
 amabilis Rve. = Partula.
 amandus Pfr. xi, 313.
 amarula Brug. = Melania.
 amastroides Anc. xi, 118.
 ambustus Rve. xi, 264.
 americanus Heilpr. xiv, 103.
 amoenus Bonn. xi, 69.
 amoenus Pfr. xi, 308.
 AMPHIBULIMA Lam. xii, 232.
 AMPHIBULIMINÆ xii, 211.
 AMPHIDROMUS Alb. xiii, 127.
 ampullaceus Brug. = Ampullaria.
 ampullaroides Mss. x, 75.
 anachoreta Pfr. x, 139.
 anais Less. xii, 168, 171.
 Anastoma auct. xiv, 109.
 anatinus Poir. = Viviparus.
 anceps Alb. xi, 290.
 ANCTUS Alb. xiv, 36.
 ancylus Dall xi, 119.
 andai Jouss. xi, 212.
 andamanensis Mss. xiii, 168.
 andamanicus H. & T. xiii, 217.
 andicola Pfr. x, 166.
 andoicus Morel. x, 147.
 angasianus Pfr. xiii, 16.
 angasi Mart. xii, 70.
 anglostomus Wagn. xiv, 36.
 angosturensis Grun. xi, 80.
 angrandi Morel. xi, 23.
 anguillensis Pfr. xii, 26.
 angularis Fér. xii, 226.
 angulatus Fult. (Amph.) xiii, 226.
 angulatus Wagn. xiv, 42.
 angulosa Fér. xii, 98.
 Angystoma Schum. xiv, 109.
 annæ Mart. xiii, 203.
 annamiticus C. & F. xiii, 169.
 annibal Souv. xiii, 64.
 annulatus Rve. xi, 296.
 anomalus C. B. Ad. = Nothus
 adamsiana.
 ANOSTOMA F. de W. xiv, 109.
 Anthinus Alb. x, 96.
 anthisanensis Pfr. xi, 32.
 antideluvianus Poir. = Melanopsis.
 antiquensis Gldg. xi, 38.
 antioquiensis Pfr. xi, 216.
 antipodarum Gray xiii, 24.
 antipodum Sm. xiii, 24.
 antiqua Hump. (Lucerna) xiv, 115.
 antoni Pfr. = Tornatellina
 apertus Pfr. x, 168.
 apex Mss. = Opeas.
 apicatus Beck. Ind p. 65.
 apicinus Mke. xiv, 171.
 apiculatus Gray xii, 26.
 aplomorphus Jon. viii, 12
 apodemetes Orb. x, 187.
 appendiculata Pfr. xii, 241.
 appressus Mss. xiii, 136.
 approximatus Dall. (Bul.) xiv, 150.
 approximatus Fult. (Amph.) xii,
 208.
 appni Dpr. x, 68.
 aquensis Math. = Glandina.
 aquilus Rve. xi, 17.
 arboriferus Pils. xi, 175; xiv, 153.
 arbustorum Phil. xi, 10.
 arcuatostratus Pfr. xi, 230.
 arenosus Gass xiii, 46.
 areolatus Pfr. xiii, 198.
 argenteus Jouss. xiv, 128.
 argentinus Anc. xiv, 147.
 aristaens Cr. x, 88.
 armatus Migh. = Auriculella.
 arrosus 'Brod' Anton. Verz. p.
 42 = erosus Brod.
 arrosus Sowb. x, 160.
 artemesia Auct. xi, 152.
 artemisia W. G. B. xi, 152.
 artensis Gass. = Opeas.
 articulatus Fult. (Amph.) xiii, 222.
 articulatus Lam. = Cochlicella.
 articulatus Turt. = Macroceramus.
 ascendens Pfr. x, 49.
 ascendens Poey = Opeas.
 ASPASTUS Alb. xiii, 94.
 asperatus Alb. xi, 102.
 aspersus Grat. viii, 53.
 assumptionis Val. xiv, 172.
 assurgens Poey = Opeas.
 astrapotides Jonas x, 40.
 atacamensis Pfr. x, 140.
 atahualpa Dhn. xi, 168.
 ATAXUS Alb. x, 130; xiv, 136.
 ater Rich. = Melania.
 atomata Gray xiii, 122
 atricallosus Gld. xiii, 165.
 atramentarius Pfr. xii, 209.
 atrovirens Moric. xii, 213.
 attenuatus Pfr. xii, 60.
 augusti Jouss. xii, 195.

<i>aulacostylus</i> Pfr. x, 72.	17	<i>baeri</i> Dautz. xiv, 135.	24
<i>aurantiaca</i> Schum. xiii, 41.	53	<i>baezensis</i> Hid. xi, 219.	41
<i>aurantia</i> Perry xiii, 24.	53	<i>bahamensis</i> Bld. xii, 12.	
<i>auratus</i> Pfr. = <i>Neobeliscus</i> .		<i>bahamensis</i> Pfr. xii, 8.	46
<i>aurea</i> Dillw. xiii, 148.		<i>bahicola</i> Mörch xiv, 47.	
<i>aureocinctus</i> Fult. xiii, 224.		<i>BAHIENSIS</i> Jouss. xiv, 46.	57
<i>aureolus</i> Gupp. xii, 19.	46	<i>bahiensis</i> Moric. xiv, 47.	
<i>aureonitens</i> Mill. x, 91.	19	<i>baileyi</i> Dall xi, 145.	35
<i>aureus</i> Martyn xiii, 160.		<i>bairdi</i> Rve. xiii, 42.	54
<i>aurifluus</i> Pfr. xii, 55; xiv, 162.	47	<i>balanoides</i> Jonas viii, 44.	
<i>aurisbovinus</i> Fèr. xiii, 41.	53	<i>balsanus</i> Morel. x, 184.	26
<i>aurisbovina</i> Pet. xiii, 23.	53	<i>balteatus</i> Gld. = <i>Achatinidæ</i> .	
<i>aurisbovina</i> Rve. xiii, 57.	54	<i>baltovia</i> Rve. xiv, 173.	
<i>auriscaprinus</i> Fèr. x, 114.		<i>baranguillanus</i> Pfr. xi, 208.	41
<i>auriscervina</i> Fèr. xiv, 42.		<i>barbadensis</i> Pfr. xi, 48.	30
<i>aurisfelis</i> Brag. = <i>Auriculidæ</i> .		<i>baroni</i> Fult. xi, 172.	37
<i>aurisjudæ</i> Brug. = <i>Auriculidæ</i> .		<i>baroni</i> Fult. (Xeno.) xiv, 134.	22
<i>aurisjudæ</i> Meusch. (Bulla.) xiv, 133.	16	<i>bartletti</i> H. Ad. xi, 224.	42
	39	<i>bataviæ</i> Grat. xiii, 233.	
<i>aurisleporis</i> Brug. xi, 189.		<i>bauri</i> Dall xi, 118.	34
<i>aurismalchi</i> Brug. = <i>Auricula</i> .		<i>bavayi</i> C. & M. xiii, 31.	53
<i>aurismalchi</i> Gm. xiii, 40.		<i>Beccarii</i> T. C. xiii, 140.	
<i>aurismidæ</i> Rve. xiii, 41.	54	<i>BEDDOMEA</i> Nev. xiv, 1.	
<i>aurismuris</i> Moric. xi, 191.	39	<i>beddomei</i> Braz. xiii, 121.	
<i>aurismuris</i> Shuttl. 1852 = <i>Chilon-</i>		<i>begini</i> Morl. xiii, 188.	
<i>opsis</i> .		<i>behrendti</i> Pfr. xi, 52.	
<i>auris</i> Pfr. xi, 259.	43	<i>belcheri</i> Pfr. viii, 35.	
<i>aurisratti</i> Ph. xi, 223.	42	<i>beldingi</i> Coop. xi, 149.	36
<i>aurisseiuri</i> Gupp. x, 112; xiv, 132.	16	<i>bellulus</i> Jonas x, 66.	
<i>aurissileni</i> Born (Voluta) x, 65.	17	<i>bensoni</i> Rve. xii, 147.	61
<i>aurissileni</i> Gray, x, 114.		<i>berendti</i> Pfr. xi, 52.	
<i>AURIS</i> Spix x, 95.	14	<i>bergii</i> Doer. xiv, 87.	
<i>aurisvirginis</i> Dillw. x, 7.		<i>bermudensis</i> Prime 1859.	
<i>aurisvulpina</i> = <i>Chilonopsis</i> .		<i>bernardii</i> Pfr. x, 105.	15
<i>auritus</i> Brug. = <i>Melanidæ</i> .		<i>bernieri</i> Hartm.	56
<i>auritus</i> Sowb. (<i>Bulinus</i>) x, 27; xiv,	5	<i>beyerleanus</i> Hupe xi, 197.	41
121.		<i>bicarinatus</i> Brug. = <i>Achatina</i> .	
<i>auritum</i> Spix xi, 190.		<i>bicoloratus</i> Lea vii, 199.	
<i>aurora</i> Jay = <i>Limicolaria</i> .		<i>bicolor</i> Hartm. (Plac.) xiii, 74.	55
<i>australis</i> Bowd. (Partula) x, 7.		<i>bicolor</i> Sowb. xi, 295.	45
<i>australis</i> Brug. = <i>Partula</i> .		<i>bidens</i> Brug. = <i>Clausilia</i> .	
<i>australis</i> Dillw. xiii, 40.	53	<i>bidvilli</i> Cox xiii, 121.	
<i>australis</i> Mart. x, 35.	5	<i>bifasciata</i> Burr. (<i>Oxychona</i>) xiv,	38
<i>auversiensis</i> Dh. Eocene.		154.	
<i>avellana</i> Beck xi, 112.		<i>bifasciatus</i> Ph. x, 59.	
<i>avellana</i> Brug. = <i>Amphibola</i> .		<i>biformis</i> Pfr. x, 151.	25
<i>avellanedæ</i> Doer. xiv, 91.		<i>bifulgurata</i> Rve. xii, 143.	61
<i>avenaceus</i> Brug. = <i>Pupa</i> .		<i>bilabiata</i> B. & S. x, 99.	15
<i>azulensis</i> Doer. xi, 319.	31	<i>bilabratus</i> Pils. xii, 152.	62
		<i>billineatus</i> Sowb. x, 187.	26
		<i>binneyanus</i> Pfr. xi, 133.	
		<i>binneyanus</i> Pfr. xi, 164.	37
		<i>binominis</i> Sm. xii, 21.	46
		<i>bisculptus</i> Pfr. x, 142.	24
		<i>bisuturalis</i> Pils. x, 112.	16
		<i>bitaeniatus</i> Nyst. x, 58; xiv, 127.	21
		<i>bivaricosus</i> Gask. xiii, 25.	53

<i>bivittatus</i> Ph. x, 59.		<i>brodiei</i> Braz. xiii, 83.	55
<i>bivittatus</i> Sowb. xi, 242.	43	<i>bronni</i> Pfr. x, 28; xiv, 120.	5
<i>bizonalis</i> Anc. xi, 109.		<i>browni</i> Ads. x, 28.	
<i>blainianus</i> Poey xii, 174.	63	<i>brownii</i> Pils. (Neopet.) xi, 179.	37
<i>blainvilleanus</i> Pfr. x, 67.	17	<i>browni</i> Pils. (Amphib.) xii, 238.	69
<i>blanchardianus</i> Gass. = <i>Subulina</i> .		<i>bryanti</i> Coop. xi, 157.	36
<i>blandi</i> Pils. xi, 248.	43	<i>buccalis</i> Gass. xiii, 53.	54
<i>BOCOURTIA</i> Roch. xiv, 23.		<i>buccinalis</i> Lam. 1804 = <i>Rissoa</i> .	
<i>bogotensis</i> Pfr. xi, 212.	41	<i>bucia</i> Behn xi, 235.	42
<i>bohlsi</i> Mart. xiv, 70.		<i>buckleyi</i> Higg. xii, 193.	65
<i>bohloensis</i> Brod. (<i>Bulinus</i>) viii, 26.	26	<i>buckleyi</i> Sowb. (Dry.) xi, 276.	44
<i>boissieri</i> Moric. xii, 222.	67	<i>buenavistensis</i> Pils. xi, 59.	30
<i>boithyanus</i> Ads. xi, 322.		<i>bugabensis</i> Mart. xii, 64.	47
<i>bolivarii</i> Orb. xi, 193.	41	<i>bulbulus</i> Gass. xiii, 60.	53
<i>bolivianus</i> Rk. xii, 190.		<i>bulimea</i> Spix (Columna) x, 55.	
<i>bolivianus</i> Pfr. xi, 244.	43	<i>bulimoides</i> Pfr. (Succinea) x, 84.	
<i>bolivianus</i> Rve. xi, 297.		BULIMULIDÆ.	8
<i>bonaerensis</i> Doer. xi, 319.	31	<i>BULIMULOPSIS</i> Pils. xii, 220.	67
<i>bonariensis</i> Strob. xi, 68.	30	<i>BULIMULUS</i> Lech. x, 125.	22
<i>bondeensis</i> C. & S. xiii, 32.	53	<i>Bulinus</i> Scop. x, 3.	
<i>BONNANIUS</i> Jous. xiv, 103.	57	<i>Bulinus</i> Adams. x, 2.	
<i>bonnanus</i> Jous. xiv, 104.		<i>bullia</i> Mke. xiii, 15.	51
<i>bonneti</i> Anc. J. de C., 1902.		<i>bullula</i> Brod. (<i>Bulinus</i>) viii, 36.	
<i>bootis</i> Mke. xiii, 41.	53	<i>buschii</i> Pfr. xi, 5.	27
<i>borealis</i> Mart. xii, 84.	48		
<i>borellii</i> Anc. xi, 279.	44	C	
<i>borneensis</i> Pils. xiii, 153.		<i>cacotycus</i> Mab. xi, 150.	36
<i>BOSTRYX</i> Trosch. x, 135.		<i>cacticolus</i> Rve. xi, 60, xiv, 144.	30
<i>BOTHRIEMBRYON</i> Pils. xiii, 1.	50	<i>cactivorus</i> Brod. xi, 265.	44
<i>botterii</i> C. & F. xii, 47.	47	<i>cailliaudi</i> Pet. viii, 54.	
<i>boucardi</i> Pfr. xii, 127.	61	<i>caesar</i> Pfr. viii, 16.	
<i>boulariensis</i> Sowb. xiii, 50.	54	<i>calcadensis</i> Bedd. xiv, 9.	
<i>bourcierii</i> Pfr. xi, 241.	42	<i>calcareus</i> Brug. = <i>Obeliscus</i> .	
<i>boussingaultii</i> Hupe xii, 210.	66	<i>calchaquinus</i> Doer. x, 151.	25
<i>bouvieri</i> Dautz. xiv, 45.		<i>caledonicus</i> Pet. xiii, 60.	54
<i>bouvieri</i> Jous. (Bonnanius) xiv, 104.		<i>californicus</i> Rve. xii, 40.	47
<i>bovinus</i> Auct. xiii, 22.	53	<i>caliginosus</i> Rve. xi, 33.	28
<i>bovinus</i> Brug. xiii, 42.	54	<i>calista</i> Brod. viii, 24.	
<i>brachyplax</i> Pils. x, 103.	15	<i>calista</i> Pils. xiii, 144.	
<i>brachysoma</i> Pils. xiii, 19.	51	<i>callaoensis</i> Pils. xi, 16.	28
<i>Brachyspira</i> Pfr. xii, 233.		<i>calliostoma</i> Dhn. x, 85.	18
<i>brachystoma</i> Orb. xi, 193.	41	<i>CALLISTOCHARIS</i> Pils. xiii, 102.	56
<i>brackebuschii</i> Doer. xiv, 99.		<i>callosus</i> Pfr. x, 178.	26
<i>brasiliensis</i> Fér. xiv, 61.		<i>callosus</i> Phil. x, 177.	
<i>brasiliensis</i> Moric. xii, 215.	66	<i>calobaptus</i> Jonas viii, 46.	
<i>brazieri</i> Ang. xiii, 10.	51	<i>calus</i> Pils. (Stroph.) xiv, 119.	4
<i>brazieri</i> Hartm. (Diplo.) xiii, 116.	56	<i>calus</i> Sm. (Plac.) xiii, 83.	55
	21	<i>calvus</i> Sowb. xi, 105.	33
<i>brephoides</i> Orb. x, 57.		<i>CALYCIA</i> H. Ad. xiv, 20.	
<i>brephos</i> Bk. = <i>Obeliscus</i> .		<i>Calypso</i> Brod. viii, 25.	
<i>breviculus</i> Pfr. viii, 46.		<i>camba</i> Orb. x, 185.	
<i>breviculus</i> Rve. viii, 33.		<i>cambodiensis</i> Morel. xiii, 178.	
<i>brevis</i> Jay. Cat. 1839, p. 55.		<i>cambojiensis</i> Rve. xiii, 177.	
<i>brevispira</i> Pils. xii, 194.	65	<i>camelopardalis</i> Brod. viii, 25.	
<i>bridgesi</i> Pfr. x, 35.	5	<i>canaliculatus</i> Pfr. xi, 263.	44
<i>broadwayi</i> Sm. xii, 22.	46	<i>canaliferus</i> Reib. xi, 119.	34
<i>broderipii</i> Sowb. xi, 4.	27		

canarius Ph. xi, 282.	44	chaperi C. & F. xii, 46.	47
<i>candidissimus</i> Nyst. xi, 131.		charpentieri Pfr. xiv, 76.	
<i>candidus</i> Cr. xiii, 25.	53	chemnitzoides Fbs. xi, 124.	34
<i>candidus</i> Gray xii, 93.	49	chenui Pfr. xi, 283.	44
canimarensis Pfr. = Macroceramus.		<i>chersina</i> Humph. xii, 161.	
cantagallanus Rang x. 22; xiv, 122.	5	<i>chevrotin</i> Chenu (Auricule) x, 66.	
cantatus Rve. xi, 205.	41	chiapensis Pfr. xii, 42.	47
cantrainei Bk. = Azeca.		<i>chiapensis</i> Mart. xii, 43.	
capillaceus Pfr. x, 31.	5	chilensis Less. xi, 8.	27
<i>caprinus</i> Bk. x, 114.		<i>chilensis</i> Sowb. (Bulinus) x, 34.	
<i>caprella</i> Gldg. x, 62.		<i>chiliensis</i> Less. (Achatina) xi, 8.	
<i>caprella</i> Lm. (Auricula) x, 65.		chimborasensis Rve. xi, 261.	43
<i>capueira</i> Spix xiv, 37.		chinchensis Coop. xi, 137.	35
caracasensis Rve. = Opeas.		chionostomus Mch x, 25.	
<i>carbonarius</i> Gass. xiii, 40.	53	<i>chiriguanus</i> Bk. xiv, 172.	
<i>caraibæorum</i> Bk, xii, 25.		chiriquiensis DaC. xiv, 162.	47
cardinalis Pfr. x, 77.	17	<i>chloris</i> Mab. xiii, 179.	
<i>caribæorum</i> Lam. xii, 25.		chloris Rve. xiii, 142.	
carinatus Brug. = Auculosa.		<i>christiani</i> Bk. xiv, 172.	
carinatus Lea viii, 22.		christolianus Math., 1842 = Achatinidæ.	
carinatus Perry = Cantharidus.		christopheri Pils. xii, 16.	46
carinatus Pfr. xii, 162.		christopheri Pils. (Amph.) xiv.	69
carinatum Pfr. (Anost.) xiv, 115		chromatellus Morel. = Limicolaria.	
<i>carnalis</i> Perry xiv, 123.		chrysalidiformis Sowb. viii, 52	
<i>carnea</i> Mch. xii, 25.		chrysalis Pfr. xii, 43.	29
<i>carneolus</i> Grat. viii, 19.		chrysaloides Pils. xi, 87.	32
CARYODES Alb. xiii, 125.		chrysochila Cr. xiii, 64.	54
castaneofasciata Montr. xiv, 16.		chrysomelas Mart. xi, 267.	44
castaneus Dh. xiii, 5.	51	chrysostoma Mor. x, 103.	15
castaneus Pfr. x, 85; xiv, 131.	18	<i>chrysotrema</i> Bk. xiv, 172.	
<i>castelnaui</i> Hupe x, 19.		ciaranus Dohrn xiv, 49.	
castelnaui Pfr. xi, 73.	31	<i>cicatricosus</i> Gass. xiii, 38.	
<i>castrensis</i> Pfr. xi, 280.		<i>cicatricosus</i> Kob. xiii, 52.	54
castus Pfr. xii, 43	47	ciliatus Gld. xi, 78.	31
catamarcanus Pfr. xi, 170.	37	cinctus Jay = Leucotænius.	
<i>catamayensis</i> Mill. xi, 273.		cinereus Reib. xi, 112.	34
catharinæ Pfr. xiv, 56.		<i>cinereus</i> Rve. x, 165.	
cathcartiæ Rve. x, 82.	18	cinerosus Pfr. viii, 15.	
catlowiæ Pfr. xi, 34	28	cinnamomeolineatus Moric. xii, 97.	
caucaensis DaC. xi, 247.	43		49
<i>caxoeirana</i> Moric. xii, 92.	49	citharellus Lam. 1804, Auriculidæ.	
<i>cayanensis</i> Bk. xii, 190.		citrinellus Ph. xi, 271.	44
cecileæ Mor. xi, 230.	42	citrinovitrea Moric. xii, 221.	67
centralis Doer. x, 188.	26	<i>citrinus</i> Sw. xiii, 151.	
ceratacme Pfr. x, 150.	25	citronellus Ang. xii, 78.	48
<i>cercicola</i> Morel. x, 185.	26	clarus Pfr. xi, 235.	42
<i>cercicola</i> Morel. x, 184.	26	clathratus Pfr. xi, 281.	44
cereus Rve. = Opeas.		clausiloides Rve. x, 135.	
ceroplasta Pils. x, 159.	25	clausus Spix (Tomig.) xiv, 106.	
cerussatus Rve. xi, 296.	45	clausus Pils. xiii, 195.	
ceylanicus Pfr. xiv, 5.		<i>clavus</i> Ads. xi, 106.	
chacoensis Anc. xiv, 147.	32	clavulus Lam. = Melania.	
chamæleon Pfr. xi, 264.	44	cleryi Recl. xiii, 96, 236.	55
championi Mart. xi, 73.	48	<i>Clessinia</i> Doer. xiv, 66.	
chanchamayensis Hid. xi, 259.	43	clouei Pfr. xii, 94.	49
champagnianus Doer. xiv, 80.		coagulatus Rve. x, 161.	25
chancaninus Doer. xiv, 86.			

<i>coarctatus</i> Pfr. xi, 195.	41	<i>cooperi</i> Dall xi, 139.	35
<i>coarctatus</i> Rve. xi, 196.		<i>coquimbensis</i> Brod. xi, 10.	27
<i>cocapatensis</i> Pfr. x, 20.	5	<i>coræformis</i> Pils. xiv, 142.	28
<i>cochinchinensis</i> Pfr. xiii, 177.		<i>coraformis</i> Pils. xi, 15.	28
<i>coeruleus</i> Pfr. xi, 180.	37	<i>cora</i> Orb. xi, 166.	37
<i>cognatus</i> Pils. xiv, 1-5.	41	<i>cordilleræ</i> Doer. xiv, 125.	5
<i>colimensis</i> Rolle xii, 46; xiv, 162.	47	<i>cordilleræ</i> Strob. x, 181.	
<i>colimensis</i> Rolle. (<i>Oxystyla</i>) xii, 118.		<i>cordovanus</i> Pfr. xiv, 66.	
<i>colmeiroi</i> Hid. xi, 316.	49	<i>coriaceus</i> Pfr. xi, 51; xiv, 143.	30
<i>coloratus</i> Nyst. x, 74; xiv, 129.	18	<i>corneus</i> Lea. xi, 59.	
<i>colubrinus</i> Pfr. xiii, 106.	56	<i>corneus</i> P. & M. xi, 65.	
<i>columba</i> Brug. = <i>Achatinidæ</i> .		<i>corneus</i> Sowb. xi, 54.	30
<i>columbianus</i> Lea xi, 312.	45	<i>CORONA</i> Alb. xii, 175.	64
<i>columellaris</i> (Pupa) Mich. = <i>Rillyia</i> .		<i>corpulentus</i> Gass. xiii, 37.	53
<i>columellaris</i> Mlldff. (Amph.) xiii, 213.		<i>correctus</i> Pfr. xi, 258.	43
<i>columellaris</i> Rve. (Bul.) x, 136.	24	<i>corrugata</i> Guppy xii, 217.	66
<i>columna</i> Brug. = <i>Columna</i> .		<i>corrugatus</i> Brug. = <i>Clausilia</i> .	
<i>columna</i> Pils. (Neopet.) xi, 180.	37	<i>corrugatus</i> King xi, 7.	
<i>columnaris</i> Zeigl. = <i>Subulina</i> .		<i>corrugatus</i> Wagn. x, 22.	
<i>comes</i> Pfr. xiii, 170.		<i>corticosis</i> Sowb. x, 76.	17
<i>compactus</i> Fult. xiv, 282.		<i>corumbaensis</i> Pils. xi, 68.	31
<i>complanatus</i> Rouss. 1849 = <i>Petræus</i> .		<i>Corus</i> Jouss. xiv, 120.	
<i>compressus</i> Bk. xiv, 172.		<i>corydon</i> Cr. x, 80.	17
<i>conciunus</i> Fult. (Amph.) xiii, 226.		<i>cosmandanus</i> Cr. Paet. xiii, 234.	
<i>concinus</i> Pfr. viii, 27.		<i>cosmicus</i> Mab. xi, 144.	35
<i>concolor</i> Bk. xiv, 172.		<i>costaricensis</i> Pfr. xii, 63.	47
<i>concolor</i> Mart. xii, 32.	46	<i>costatus</i> Pfr. xiv, 54.	
<i>confertus</i> Pfr. = <i>Nothus</i> .		<i>costellatus</i> Grat. = <i>Alaba</i> .	
<i>confinis</i> Rve. xi, 129.		<i>costellatus</i> Sowb. 1822 = <i>Glandina</i> .	
<i>confluens</i> Pfr. xi, 208.	41	<i>costerii</i> Eyd. viii, 44.	
<i>confusus</i> Pils. xiii, 52.	54	<i>costifer</i> Sm. xiii, 176.	
<i>confusus</i> Rve. xi, 282.	44	<i>costulata</i> Fér. xiii, 4.	51
<i>Coniclus</i> Alb. x, 6.		<i>costulatus</i> C. B. A. = <i>Subulina</i> .	
<i>conicus</i> Brard. = <i>Hydrobia acuta</i> .		<i>cotopaxiensis</i> Rve. xi, 31.	28
<i>coniformis</i> Brug. = <i>Melampus</i> .		<i>coturnix</i> Sowb. xi, 3.	27
<i>coniformis</i> Pfr. xi, 276.	44, 71	<i>cousini</i> Jouss. xi, 33.	28
<i>conispira</i> Pils. xiii, 6.	51	<i>couturesi</i> Anc. xiv, 131.	18
<i>connectens</i> Fult. (Amph.) xiii, 227.		<i>cozeirana</i> Moric. xii, 92.	49
<i>connectens</i> Mts. x, 14.	4	<i>coxiana</i> Pils. xiii, 118.	56
<i>conoideus</i> Jan. = <i>Cochlicella</i> .		<i>coxi</i> Hartm. xiii, 119.	56
<i>conospirus</i> Doer. x, 189.	26	<i>coxi</i> Pse. xiii, 90.	55
<i>consimilis</i> Rve. x, 50.		<i>crassa</i> Cr. xiii, 36.	
<i>consobrinus</i> Fult. xiii, 208.		<i>crassa</i> Lay. xiii, 45.	54
<i>consolidatus</i> Brug. = <i>Melanoidæ</i> .		<i>crassilabris</i> Grt. xiii, 111.	56
<i>conspersa</i> P. & M. (Pupa) xiv, 68.		<i>crassilabrum</i> Grt. xiii, 112.	56
<i>conspersus</i> Sowb. x, 160.	25	<i>crassus</i> Alb. x, 30; xiv, 123.	5
<i>constrictus</i> Pfr. xi, 80.	32	<i>crassus</i> Fult. (Amph.) xiii, 212.	
<i>constrictus</i> Rve. xi, 91.		<i>credulatus</i> Nev. xiv, 126.	
<i>contortuplicatus</i> Rve. x, 71.	4	<i>crenata</i> Sw. xii, 168, 169, 171.	
<i>contractus</i> Poey = <i>Opeas</i> .		<i>crenellus</i> Phil. x, 34.	5
<i>contrarius</i> Müll. xiii, 210.		<i>crenulatus</i> Pfr. x, 33.	5
<i>contusus</i> Rve. xiii, 168.		<i>crepundia</i> Orb. xi, 90.	32
<i>conulus</i> Lam. 1804 = <i>Bythinia</i> .		<i>crepundia</i> Rve. xi, 92.	
<i>conus</i> Pils. (Dry.).	71	<i>cretaceus</i> Pfr. xiv, 141.	28
<i>convexus</i> Pfr. xi, 215.	42	<i>crichtoni</i> Brod. xi, 226.	42
<i>convexus</i> Wood. = <i>Glandina</i> .		<i>crossei</i> Mart. xii, 37.	47
		<i>crossei</i> Mart. (Oxy.) xii, 116.	61

crosseii Pfr. xiii, 182.		61
crosseii Pils. (Drap.) xiv, 17.		35
cruentatus Mor. xiii, 187.		
CRYPTOSTRAKON W. G. B. xii, 232.		44
crystallinus Rve. xiv, 21.		
<i>cucullata</i> Lam. xii, 236.		43
cucullus Morel. xii, 58.	47	
cuernavacensis C. & F. xii, 84.	48	
culmineus Orb. xi, 25.	28	
cumingii Pfr. (Simp.) xii, 220.	67	
cumingi Pfr. viii, 39.		
cumingi Pfr. (Tomig.) xiv, 108.		
cunctorator Rve. vii, 203.		
cuniculinsulæ Cox xiii, 26.	53	
curianianus Rve. xi, 257.		
curta Gass. xiii, 56.	54	
curtus Cr. xiii, 33.	53	
curtus Koch, x, 172.		
curtus Reib. xi, 119.	34	
cuspidatus Morel. x, 137.	24	
cuticula Dhn. xi, 253.	43	
cutisulptus Anc. xiv, 147.	32	
cuyoensis Pfr. viii, 47.		
cuyoensis Rve. viii, 46.		
cuzcoensis Rve. xi, 236.	42	
cyathostomus Pfr. = Ennea.		
CYCLODONTINA Bk. xiv, 58.		
cyclostoma Lam. 1804. Eoc.		
cygneus Ph. xi, 237.	42	
cylindræus Brard. = Hydrobia.		
cylindræus Calc. = Azeca.		
cylindricus Da C. xiv, 157.	44	
cylindricus Gray = Macroceramus.		
cyrtopleurus Pfr. = Macroceramus.		
cytharellus Lm. = Auriculidæ.		
D		
dacostæ Sowb. xi, 214.	41	
dacostianus Pils. xi, 219.	41	
dactylus Brod. viii, 22.		
dædaleus Dh. xiv, 97.		
daftænsis Nev. xiii, 190.		
dalmasi Dautz. xiv, 128.	18	
danieli Cr. xiii, 435.		
daphnis Pfr. vii, 202.		
darwini Pfr. xi, 115.	34	
dautzenbergianus Pils. xiv, 34.		
dautzenbergianus Kob. (Plac.) xiii, 60.		
dautzenbergi Fult. xiii, 166.		
dautzenbergi Mar. xiii, 59.	54	
dealbatus Say xi, 128; xiv, 152.	35	
debeauxi Gass. xiii, 58.	54	
debilis Bk. xi, 311; xii, 13.	45	
deburghiæ Rve. xii, 196.	65	
decapitatus Spix = Stenogyra.		
deceptor Pils. xii, 116.		61
decepi ns Coop. xi, 139.		35
decoloratus Brug. = Rumina.		
decoloratus Sowb. xi, 266.		44
decoratus Fér. viii, 10.		
decoratus Lea xi, 261.		43
decorus Ant. = Achatinella.		
decolor Strebél xii, 131.		61
decolor T. C. xiii, 233.		
decussata Pfr. (Simp.) xii, 218.		66
decussatus Lam. = Rissoa.		
decussatus Rve. xi, 178; xiv, 154.	37	
degeneratus Pils. xiv, 35.		
delatouri Hartm. xiii, 117.		56
delattrei F. & C. xii, 41.		
delicatulus Ph. x, 162.		25
delphinæ Mor. xi, 229.		42
delumbis Rve. xiv, 138.		26
demerarensis Pfr. xi, 306.		45
demotus Rve. xi, 306.		45
dendritus Morel. x, 186.		
dendritoides Pils. x, 186.		
deneckei Ads. x, 156.		
deneickei Gray x, 156.		
dennisoni Rve. xii, 158.		62
dentatus Gass. xiii, 63.		54
dentatus King xiv, 58.		
dentatus Wood xiv, 94.		
DENTAXIS Pils.		31
dentaxis Pils. xiv, 143.		31
denticulatus Oliv. = Clausilia.		
dentifer Mab. xi, 161.		36
dentrita Mont. xi, 38.		
dentritus Morel. x, 186.		
depictus Rve. xi, 299.		45
depressa Rang. xii, 242.		70
depressum Lam. (Anost.) xiv, 112.		
depressum Sowb. (Anost.) xiv, 111.		
depstus Rve. x, 181; xiv, 136.		25
derelictus Brod. x, 172.		26
deshayesianum Fisch. (Anostoma)		
xiv, 111.		
deshayesii Pfr. xi, 303.		45
devians Dhn. x, 170.		25
devillei Hupe xi, 171.		
dextra Müll. xiii, 147.		
dexter Dh. xiii, 151.		
diana Brod. viii, 24.		
diaphanus Gass. = Opeas.		
diaphanus Pfr. xi, 47.		30
digneti Mab. xi, 148.		36
dilatatus Pfr. vii, 193.		
dilatatus Rve. vii, 192.		
dillwyniana Pfr. x, 118.		16
DIPLOMORPHA Anc. xiii, 114.		56
discrepans Sowb. xii, 81.		48
dismenicus Mab. xi, 162.		36

- distorta Brug. x, 109.
doeringi Kob. xiv, 73.
doeringi Kob. xiv, 75.
dohertyi Aldr. xiv, 11.
dohnianus Mts. x, 14.
dohni Pfr. xiii, 173.
dolabratus Brug. = *Pyramidella*.
doliarius DaC. xiv, 130.
DOLICHEULOTA Pils. xiv, 18.
doliolum Brug. = *Pupa*.
dombeianus Brug. = *Chilina*.
dombeyanus Fér. xii, 33.
domicanus Pils. xii, 12.
dominicensis Pils. (Amphib.) xii, 237.
dominicensis Pfr. xii, 225.
domineus Rve. xii, 3 72.
dorbignyi Doer. xiv, 126.
dormani W. G. B. xii, 2.
DRAPARNAUDIA Montr. xiv, 12.
draparnaudi Pfr. xi, 279.
droueti, Pfr. xii, 65.
dryas Brod. (*Bulinus*) viii, 49.
DRYMÆUS Alb. xi, 191.
dubiosus Jay xiv, 41.
dubius Fult. (Amphi.) xiii, 229.
dubius Pfr. xi, 313.
duffresnii Lch. (*Caryodes*) xiii, 125.
dukinfeldi Melv. xiv, 146.
dumonti Meh. = *Helicostyla*.
duncanus Dall. xi, 114; xiv, 152.
dukeri Pfr. xii, 45; xiv, 162.
duplex Gass. xiii, 59.
duplocinctus Fult. xiii, 222.
dupuyi Kob. xiii, 31.
durangoanus Mts. xi, 127.
durfeldti Dohrn. x, 18.
durus Spix xi, 87.
dussumieri Rve. = *Ennea*.
dutailliyi Pfr. xiv, 158.
dux Pfr. xii, 3.
dysoni Pfr. xi, 56; xiv, 144.
- E
- eburneus Rve. viii, 20.
eddytonensis Pfr. xiii, 30.
edentula C. & S. xiii, 32.
edentula Braz. xiii, 61.
edmulleri Alb. xi, 272.
edwardsianus Gass. xiii, 45.
edwardsi Morel. xi, 27.
effeminatus Rve. xi, 304.
effusus Brug. = *Ampullaria*.
effusus Pfr. viii, 31.
eganus Pfr. xi, 64.
egregia Jay (*Pupa*) x, 101.
- 16 *egregius* Pfr. x, 123.
elaeodes Pfr. x, 86.
elatus Gld. xi, 141.
elatus Ph. x, 150.
 4 *electricus* Rve. viii, 54.
electrum Rve. xi, 310.
elegans Mss. xiii, 217.
elegans Pfr. xi, 11.
elegans Rolle xii, 117; xiv, 164.
elegans Serr. 1844 = *Glandina*.
elegantissimus Mss. xi, 211.
 47 *ellipticus* Sowb. = *Rullya*.
 46 *elobatus* Gld. xiii, 115.
elongata Mab. xiii, 179.
 69 *elongata* Mill. xii, 156.
 67 *elongatulus* Pils. xi, 307.
 46, 48 *elongatus* Bolt. xii, 23.
 5 *elongatus* Fauj. = *Hydrobia*.
 46 *elongatus* H. & J. xiii, 168.
elongatus Orb. xiv, 140.
 27 *elsteri* DaC. xiv, 156.
 41 *emaciatius* Mart. xiii, 153.
emaciatius Morel. x, 143.
 24 *emarginata* Sw. xii, 164.
 63 *emeus* Say xii, 73.
 48 *enganoensis* Fult. xiii, 157.
entobaptus Dhn. xiii, 145.
eocaenicus Oppenh.
episcopalis Pfr. x, 76.
 17 *eques* Pfr. xiii, 165.
erectus Rve. xi, 60.
 30 *eremothauma* Pils. x, 129.
 23 *eros* Ang. x, 74.
 17 *erosus* Brod. x, 160.
 25 *erulescens* Pfr. xii, 9.
 46 *erubescens* Sol. (*Helix*) x, 7.
 5 *erubescens* Sw. x, 122.
 32 *erythrosoma* Pils. (*Stroph.*) x, 10;
 xiv, 117.
 43 *erythrostoma* Mke. (*Pupa*) xiv, 31.
 51 *erythrostomus* Sowb. x, 173.
 26 *eschariferus* Sowb. xi, 108; xiv, 152.
 30 33
 53 *etheridgei* Braz. xiii, 26.
eudeli Anc. xiii, 199.
Eudioptus Alb. xii, 220.
 53 *eudioptus* Pils. xi, 89.
 53 *EUDOLICHOTIS* Pils. x, 108.
 16 *EUMECOSTYLUS* Alb. xiii, 96.
 54 *EUPLAČOSTYLUS* Cr. xiii, 99.
 44 *euryomphala* Jon. x, 116.
 54 *eurytomus* Ph. xi, 221.
 28 *EURYTUS* Alb. x, 62, 69.
 45 17
euryzonus Pfr. viii, 44.
evanescens Brod. (*Bulinus*) viii, 20.
 30 *everetti* Fult. xiii, 229.
 15 *everetti* Sm. xiv, 22.

<i>eversus</i> Mss. xi, 208.		<i>filiola</i> Pils. xi, 165.	37
<i>exaratus</i> Brug. = <i>Achatinidæ</i> .		<i>filocinctus</i> Rolle. xiv, 127.	
<i>excelsus</i> Gld. xi, 141.	35	<i>filocinctus</i> Reuss. xiv, 127.	
<i>excisus</i> Mart. xii, 185.	64	<i>filozonatus</i> Mss. xiii, 202.	
<i>excoriatus</i> Pfr. xi, 227.	42	<i>fischeri</i> Mart. xii, 116.	61
<i>exesa</i> P. & M. (<i>Clausilia</i>) xiv, 57.		<i>flagellatus</i> Pils. x, 166.	
<i>exesus</i> Spix xiv, 65.		<i>flammeum</i> Bolt. (<i>Ellobium</i>) x, 114.	
<i>exilis</i> Gmel. xi, 37.	28	<i>flammeus</i> Brug. = <i>Achatina</i> .	
<i>eximius</i> Alb. xiii, 49.	54	<i>flammeus</i> Mss. xiii, 155.	
<i>eximius</i> Perry = <i>Cantharidus</i> .		<i>flammulatus</i> Mart. xiii, 217.	
<i>eximius</i> Rve. xiii, 111.	56	<i>flavescens</i> Fér. xi, 311.	
<i>exornatus</i> Rve. x, 171; xiv, 137.	32	<i>flavescens</i> King (<i>Partula</i>) xi, 8.	
<i>exoticus</i> DaC. xiv, 156.	41	<i>flavidulus</i> Sm. xi, 288.	45
<i>expansus</i> Pfr. xi, 222; xiv, 155.	42	<i>flavidus</i> Mke. xi, 310.	45
<i>extinctus</i> Pfr. xii, 26.		<i>flavolineata</i> Sh. xii, 229.	70
<i>eyriesi</i> Dr. xi, 39.	29	<i>flavotinctus</i> Pils. xii, 18.	46
		<i>flavus</i> Pfr. xiii, 197.	
F		<i>flexilabris</i> Pfr. xi, 243.	43
<i>fabrefactus</i> Rve. xi, 260.	43	<i>flexuosus</i> Pfr. xi, 209.	41
<i>falcicula</i> Gass. xiii, 46.	54	<i>floccosa</i> Spix (<i>Achatina</i>) x, 93.	
<i>falconeri</i> Rve. xiii, 122.		<i>floccosus</i> Spix x, 92.	19
<i>fallax</i> Pfr. xi, 239.	42	<i>flogera</i> P. & M. xii, 144.	
<i>famatinus</i> Doer. x, 152.	25	<i>floresianus</i> Fult. xii, 205.	
<i>fanneri</i> Dall. xi, 114.		<i>floridanus</i> Conr. xiv, 103.	
<i>farrisi</i> Pfr. xi, 268.	44	<i>floridanus</i> Pfr. xii, 5.	46
<i>fasciata</i> P. & M. (<i>Pupa</i>) xiv, 60.	61	<i>floridensis</i> Pils. xii, 110.	61
<i>fasciata</i> Pils. (<i>Helic.</i>)	71	<i>flori</i> Jouss. xiv, 164.	62
<i>fasciata</i> Roch. (<i>Bocourtia</i>) xiv, 24.		<i>fluctuatus</i> Bk. xii, 23.	
<i>fasciata</i> Sar. (<i>Amphi.</i>) xiii, 233.		<i>focillatus</i> Rve. xii, 41.	
<i>fasciata</i> Sm. (<i>Dry.</i>) xii, 14.	46	<i>folicola</i> Hedl. (<i>Papuina</i>) xiii, 120.	
<i>fasciata</i> Spix xi, 187.		<i>folini</i> Morel. = <i>Streptostele</i> .	
<i>fasciatus</i> Anc. (<i>Pseudopart</i>) xiv, 11.		<i>folliculus</i> Pfr. = <i>Diplommatina</i> .	
<i>fasciatus</i> Dohrn (<i>Macro.</i>) xiv, 32.		<i>fontainuii</i> Orb. xi, 62.	30
<i>fasciatus</i> Gupp. xii, 19.	46	<i>fontinalis</i> Brug. = <i>Physa</i> .	
<i>fasciatus</i> Mts. xiii, 181.		<i>fordii</i> Pils. xi, 205.	41
<i>fasciatus</i> Müll. (<i>Lig.</i>) xii, 166.	63	<i>formosensis</i> H. Ad. xiv, 19.	
<i>fastigiata</i> Morel. = <i>Streptostele</i> .		<i>forreri</i> Mss. xii, 46.	47
<i>faunus</i> Brod. (<i>Bulinus</i>) viii, 203.		<i>founaki</i> H. & J. xiii, 79.	55
<i>fayssianus</i> Pet. x, 182.	26	<i>fourmiersi</i> Orb. xi, 71.	31
<i>feisthameli</i> Hupe. xi, 322.		<i>foveolatus</i> Rve. x, 46.	21
<i>felix</i> Pfr. xi, 211.	41	<i>fragilior</i> Iber. xiv, 121.	5
<i>fenestralis</i> Alb. xii, 46.		<i>fragilis</i> Lam. xiv, 171.	
<i>fenestratus</i> Auct. xii, 46.		<i>fragilis</i> Spix x, 55.	
<i>fenestratus</i> Pfr. xii, 34.	47	<i>francoisi</i> Mab. xiii, 74.	55
<i>fenestrellus</i> Mart. xii, 58.	47	<i>fraseri</i> Pfr. xii, 193.	65
<i>feriatus</i> Rve. xi, 203.	41	<i>fraterculus</i> Auct. xi, 40.	
<i>ferrugineus</i> Rve. xi, 29.	28	<i>fraterculus</i> Fér. xi, 46.	30
<i>ferussaci</i> Auct. xii, 138.		<i>frater</i> Fér. viii, 10.	
<i>ferussaci</i> Mart. xii, 119.	61	<i>fresnoensis</i> Pils. xi, 304.	45
<i>fibratus</i> Gray xiii, 23.	53	<i>fucatus</i> Rve. xi, 234.	42
<i>fibratus</i> Mart. xiii, 35, 235.	53	<i>fulgetrum</i> Brod. viii, 13.	
<i>fictilis</i> Brod. viii, 47.		<i>fulgurata</i> Mill. xii, 227.	
<i>fidænsis</i> Moric. xiv, 44.		<i>fulguratus</i> Jay xiii, 111.	56
<i>fidustus</i> Rve. xi, 308.	45	<i>fulguratus</i> Val. x, 21.	
<i>figulinus</i> Bk. xiv, 172.		<i>fulgur</i> Mill. xii, 143.	61
<i>flaris</i> Pfr. xi, 316.	49	<i>fuliginæus</i> Pfr. xiii, 70.	55
		<i>fulminans</i> Nyst. x, 66.	17

- fultoni Anc. xiii, 197.
 fulvescens Pfr. xii, 141.
 fulvus Brug. = Achatinidæ.
 funcki Nyst. x, 43.
 funeralis Brug. xiv, 160.
 fungairinoi Hid. xii, 204.
 furcillatus Mss. xiii, 216.
 fusca Anc. xiv, 138.
 fuscagula Lea xiv, 58.
 fuscagula Rve. xiv, 52.
 fuscatus Brug. = Melaniidæ.
 fuscobasis Sm. xi, 289.
 fuscolabris Mildff. xiii, 199.
 fuscoventris Bs. xiv, 4.
 fuscus Gldg. xi, 49.
 fusiformis Mke. xiv, 54.
 fusiformis Rang. xiv, 42.
 fusiformis Tschudi x, 59.
 fusoides Orb. xi, 201; xiv, 154.
 fusus Brug. xiv, 281.
- G
- gabbi Aug. xii, 70.
 gabbianus Binn. xii, 70.
 gabbi C. & F. xi, 147.
 GÆOTIS Shutt. xii, 227.
 galactostoma Anc. xii, 194.
 galapaganus Pfr. xi, 106.
 galeottii Nyst. xi, 133.
 galericulum Mss. xiv, 10.
 gallinasultana Auct. xii, 189.
 galloprovincialis Math. 1842=Glandina.
 garciamoreni Mill. x, 14.
 gareana Pfr. Cless. xiii, 41.
 gargantua Dh. (Clausilia) xiv, 31.
 gargantua Fér. xiv, 64.
 gargantula Bk. xiv, 31.
 garretti Pils. xiii, 103.
 gassiesi Pils. (Drap.).
 gastrum Mss. = pusio Brod.
 gatopensis Cr. xiii, 51.
 gaudryanus Gass. xiii, 64.
 gayi Pfr. xi, 18.
 gealei H. Ad. xii, 59.
 gedeanus Bttg. xiv, 11.
 gelidus Rve. xi, 320.
 gemellatus Anc. xiv, 170.
 GEOCERAS Pils. x, 136.
 geometricus Pfr. xi, 234.
 GEOPYRGUS Pils. x, 135.
 gereti Anc. xiv, 159.
 germaini Anc. xi, 206.
 ghiesbreghti Pfr. xii, 50.
 gibberulus Burr. xiv, 107.
 gibbonius Hid. x, 87.
 gibbonius Lea. x, 75; xiv, 127. 17
 gibboreus Pfr. Cless. xiv, 127.
 gibbosa Gld. in Hutt. = Bulinus.
 gibbus Nic. = Rillyia.
 gilvus Sowb. vii, 205.
 giraudi Bgt. = Livanhacia.
 glaber Brug. = Cochlicopa.
 glaber Dh. x, 114.
 glabra Gmel. (Voluta) x, 113. 16
 glandiformis Lea x, 78. 17
 glandiformis Pfr. x, 78.
 glandiniiformis Sowb. xi, 61. 30
 glans Brug. = Glandina.
 glaucolarynx Dhn. xiii, 180.
 glaucophthalmus Pfr. viii, 7.
 glaucostomus Alb. xi, 256. 43
 globosus Mart. x, 37; xiv, 124. 5
 Globulinus C. & F. xi, 125.
 globuloides Mss. (Tomig.) xiv, 105.
 globulosa Lam. (Anost.) xiv, 115.
 globulus Grat. 1845 = Hydrobia.
 glomeratus Rve. = Macroceramus.
 gloriosus Pfr. xii, 197. 65
 glyptocephalus Pils. xi, 93. 32
 gnauensis Schm. xiii, 107. 56
 gnomon Bk. Ind. 62.
 goniobasis Pils. xi, 262. 43
 Goniognathmus C. & F. xi, 182.
 goniostoma Fér. x, 122. 8
 Goniostomus Alb. x, 121.
 GONYOSTOMUS Bk. x, 121. 6
 goroensis Souv. xiii, 54. 54
 gorritiensis Pils. xi, 66. 30
 gossei Pfr. = Macroceramus.
 gouadaloupensis Bk. xi, 38.
 goudoti Pet. xi, 314. 49
 goulvainensis Kob. xiii, 67. 54
 goyettensis Cr. xiii, 62. 54
 gracilior C. & F. xii, 58.
 gracilior Fult. (Amphi.) xiii, 132.
 gracilior Mart. xii, 78. 48
 gracilior Mart. (Calycia) xiv, 22.
 gracilior Pfr. xii, 74. 48
 gracilior Pils. xi, 173. 37
 gracilis Brod. xiii, 110. 56
 gracilis Fult. xiii, 192.
 gracilis Hutt. = Opeas.
 gracilis Lea viii, 16.
 gracilis Lea xi, 214.
 gracilis Mart. xiii, 210.
 graeffei Cr. xiii, 104. 56
 grammica Cr. xiii, 44. 54
 grandidieri C. & F. = Clavator.
 grandis Desh. = Gibbus.
 grandis Mts. (Stroph.) x, 26; xiv, 122. 5, 71
 graniger Bk. xi, 8.

<i>granocinctus</i> Pils. xiv, 126.	21	<i>hauxwelli</i> Cr. x, 120.	16
<i>granulosus</i> P. & M. xi, 8.		<i>Hebridaria</i> Pils. xiii, 115.	
<i>granulosus</i> Rang. x, 20.	5	<i>hebridarium</i> Mab. xiii, 75.	55
<i>gratus</i> Pfr. xi, 313.	45	<i>hector</i> Pfr. x, 50.	21
<i>gratwicki</i> Cox xiii, 11.	51	<i>heereanus</i> Mss. xiii, 138.	
<i>gravesii</i> King xi, 7.		<i>hegewischi</i> Pfr. xii, 52; xiv, 162.	47
<i>gravidus</i> Pfr. = <i>Acha'inella</i> .		<i>heilpridianus</i> Dall xiv, 103.	
<i>grayanus</i> Pfr. xiv, 32.		<i>heimburgi</i> Kob. xiii, 93, 236.	55
<i>gregarius</i> Voltz = <i>Hydrobia</i> .		<i>helicoides</i> Pfr. vii, 178.	
<i>grenadensis</i> Gupp. (Auris) x, 114.	16	<i>heloicus</i> Orb. x, 183; xiv, 138.	
<i>grenadensis</i> Pfr. xi, 300.	45	<i>HEMIBULIMUS</i> Mart. xii, 184.	64
<i>grevillei</i> Pfr. xii, 156.	62	<i>hemicyclus</i> Roch. xiii, 193.	
<i>grossus</i> Bk. xiv, 172.		<i>hemphilli</i> Wr. xii, 5.	46
<i>gruneri</i> Pfr. xi, 305.		<i>hennahi</i> Gray x, 156.	25
<i>guadalupensis</i> Brug. xi, 38; xiv, 143.	29	<i>henseli</i> Mart. xi, 254.	43
<i>guadaloupensis</i> Rve. xi, 38.		<i>hepatica</i> Bolt. xii, 168.	
<i>guaiensis</i> Jouss. x, 111.	16	<i>hepaticus</i> Alb. xi, 291.	45
<i>guanensis</i> Grt. xiii, 107.	56	<i>hepatostomus</i> Pfr. xii, 62.	47
<i>guarani</i> Orb. xiv, 53.		<i>hermanni</i> Pfr. = <i>Macroceramus</i> .	
<i>gueinzii</i> Pfr. xi, 233.	42	<i>heterogeneus</i> Pfr. xii, 85.	48
<i>guentheri</i> Sowb. x, 72; xiv, 129.	18	<i>heterogrammus</i> Moric. xi, 321.	32
<i>guerini</i> Pfr. x, 39.	6	<i>heterogyrys</i> Ph. xi, 174.	37
<i>guestieri</i> Gass. xiii, 51.	54	<i>heterostomus</i> Edwards = <i>Pomatias</i> .	
<i>guildingi</i> Dhn. x, 71.		<i>heterostylus</i> Pils. xiii, 72.	55
<i>guildingii</i> Pfr. = <i>Macroceramus</i> .		<i>heterotrichus</i> Moric. xi, 75.	31
<i>guimarasensis</i> Rve. viii, 10.		<i>hexodon</i> Waldd. (Anost.) xiv, 115.	
<i>gummatus</i> Hid. x, 23.	5	<i>heynemanni</i> Pfr. xii, 68.	48
<i>gundlachi</i> Pfr. = <i>Macroceramus</i> .		<i>hiabundus</i> Mart. xii, 42.	47
<i>gunni</i> Sowb. xiii, 18.	51	<i>hidalgoi</i> DaC. xi, 210.	41
<i>guppyi</i> Sm. xiii, 82.	55	<i>hienguenensis</i> Cr. xiii, 30.	53
<i>guttatus</i> Brod. x, 163.	25	<i>hieroglyphicus</i> P. & M. = <i>Omphalotropis</i> .	
<i>guttula</i> Pfr. xi, 314.	49	<i>hilairii</i> Gray xiv, 72.	
<i>guttulatus</i> Schauf. xi, 259.		<i>hilarus</i> Ads. xi, 316.	
H		<i>hindi</i> Pfr. viii, 35.	
<i>habeli</i> Stearns xi, 123.	34	<i>hindi</i> Rve. viii, 35.	
<i>hachensis</i> Rve. xiv, 144.	30	<i>hirtus</i> Beck xi, 77.	
<i>hæmastomus</i> Gm. (Turbo) x, 29.		<i>bistrio</i> Pfr. xii, 162.	
<i>hæmastomus</i> Sw. x, 25.		<i>hjalmarsoni</i> Pfr. xii, 7.	46
<i>hæmatospira</i> Pils. xiv, 149.	32	<i>hobsoni</i> Cox xiii, 91, 237.	55
<i>hæmatostoma</i> Mlldff. xiii, 182; xiv, 169.	182	<i>hoffmanni</i> Mart. xii, 70.	48
<i>hainesi</i> Pfr. viii, 26.		<i>hololeucus</i> Pfr. viii, 37.	
<i>haitensis</i> Pils. xii, 12.	46	<i>holostoma</i> Pfr. x, 134.	24
<i>Hamadryas</i> Alb. xi, 191.		<i>homalgyrus</i> Sh. = <i>Stenogyra</i> .	
<i>hamadryas</i> Ph. xi, 226.	42	<i>hombronii</i> Cr. xiii, 80.	55
<i>hamatus</i> Fult. xiii, 224.		<i>honduranus</i> Mart. xii, 89.	48
<i>hamiltoni</i> Rve. x, 149.	25	<i>hondurasanus</i> Pfr. xii, 88.	48
<i>haplochrous</i> Pfr. xi, 74.	31	<i>honduratanus</i> Tr. xii, 89.	48
<i>hargravesi</i> Cox xiii, 93.	55	<i>hongii</i> Suter xiii, 235.	53
<i>hartmani</i> Kob. xiii, 73.	55	<i>hoodensis</i> Dall xiv, 151.	34
<i>hartmanni</i> Kob. xiii, 73.	55	<i>hopei</i> Serres = <i>Rillyia</i> .	
<i>hartogensis</i> Kob. xiv, 166.	51	<i>hosei</i> Sm. xiii, 220.	
<i>hartwegi</i> Pfr. x, 52.	21	<i>hovelmontensis</i> Cr. xi, 45.	29
<i>hasta</i> Pfr. = <i>Pseudobalea</i> .		<i>hoysi</i> Grt. xiii, 105.	56
		<i>huascensis</i> Rve. x, 174.	26
		<i>huayaboensis</i> Dautz.	24
		<i>huascari</i> Tschudi x, 16.	4

humboldtii Rve. xi, 292.
humilis Pils. xiii, 10.
hupeanus Morel. x, 19.
hyalinus Wagn. x, 55.
hyaloideus Pfr. xi, 61.
hybridus Gld. x, 123.
hybridus Kob. xiii, 63.
hyematus Rve. xii, 49.
hygrohyla Orb. xi, 194.
 HYPERAULAX Pils. xiv, 102.
hypozonus Mart. xii, 74.

I

ictericus Mart. xi, 299.
ictericus Mart. xii, 37.
icterostoma Mart. xiv, 132.
ignavus Rve. xi, 57.
ignobilis Ph. xi, 317.
iguapensis Pils. xiv, 119.
iheringi Cless. x, 196; xiv, 122.
iheringi Pils. xiv, 96.
illheocola Mor. x, 106.
imbricata Roch. (Amphibulima)
 xii, 233.
imbricatus Gass. xiii, 44.
imitator Pils. xii, 140.
immaculatus Ads. xii, 10.
imperfectus Gupp. xii, 19.
imperialis Lea (Lymnæa) x, 195.
impressus Tschudi. x, 46.
impunctatus Anc. xiv, 11.
inaequalis Pfr. xi, 199.
inauris Bttg. xiii, 138.
inca Orb. x, 56.
incarnatus Pfr. xi, 300.
incertus Gass. xiii, 63.
incertus Pfr. = Buliminopsis.
incisus Hupe xii, 179.
inclinatus Pfr. xi, 221.
incomptus Pfr. viii, 28.
inconstans Fult. xiii, 209.
incrassatus Pfr. xi, 102.
indefatigabilis Dall. xiv, 152.
indentatus DaC. xiv, 281.
indicus Pfr. = Opeas.
indistinctus Gupp. xii, 21.
indistinctus Pfr. xiv, 144.
indistinctus Pils. xiii, 192.
indutus Mke. xiii, 13.
inermis Morel. xi, 51.
inflatus Brod. x, 168.
inflatus Fult. (Amph.) xiii, 133.
inflatus Lam. (Bothriemb.) xiii, 3.
inflatus Olivier 1801 = Clausilia.
inflatus Spix xi, 253.

inflatus Faujas = Hydrobia.
 51 *inflatus* Wagn. (Odont.) xiv, 60.
 5 *infrapictus* Mart. xiii, 152.
infraviridis Mts. xiii, 152.
 30 *infundibuliformis* Jay x, 131.
 8 *infundibulum* Gass. xiii, 40.
 54 *infundibulum* Pfr. x, 131.
infusca Anc. xi, 103.
 41 *ingens* Mlldff. xiii, 175.
 57 *inglorius* Rve. xii, 67.
 48 *inornatus* Fult. xiii, 223.
inscendens W. G. B. xi, 150.
insignior Euth. xiii, 40.
insignis Pet. xiii, 43.
 45 *insularis* Coop. xi, 137.
 47 *integer* Pfr. xii, 153.
 15 *intercedens* Mart. x, 23.
 30 *intermedius* Cr. xiii, 63.
 49 *intermedius* Pfr. xiv, 6.
 4 *intermedius* Reuss.
 5 *interpictus* Mart. xi, 198.
interpunctus Mart. xi, 287; xix,
 15 159.
interruptus Auct. xiii, 211.
interruptus Müll. xiii, 150.
 54 *interstitialis* Mart. xii, 50.
 61 *intertextus* Pils. x, 32; xiv, 123.
 46 *interstinctus* Gld. = Perideris.
 46 *inuitatus* Fult. xiv, 162.
inutilis Rve. xi, 73.
invalidus Reib. xi, 102.
inversus Müll. xiii, 167.
 41 *involutus* Mart. xi, 187.
iocosensis Dantz. xiv, 135.
 21 *iodes* Shutt. xii, 210.
 45 *iodostomus* D. & H. xi, 223.
 54 *iodostylus* Pfr. xii, 50.
iostoma Sowb. xii, 150.
 64 *iraznensis* Ang. xii, 68.
 42 *iris* Pfr. xii, 157.
irregularis Pfr. xi, 34.
irroratus Rve. xii, 145.
 33 *isabellina* Mart. xii, 142.
 34 *ischnus* Pils.
iserni Phil. x, 57.
isselliana T.-C. (Calycia) xiv, 22.
istapensis C. & F. xi, 53.

J

51 *jacobi* Rve. xi, 113.
 30 *jacobi* Sowb. xi, 111; xiv, 151.
jamaicensis Pfr. = Euspiraxis pro-
 cerus.
jamaicensis Pils. xii, 107.
janeirensis Sowb. xiv, 51.
jansoni Mart. xii, 37.

- janus Pfr. xiii, 156.
 jaspideus Morel. x, 61. 21
jaspideus Morel. 1866 = *Limicolaria*.
jatesi Hupe xii, 204. 65
javanicus Sowb. xiii, 140.
jayanus Lea xiii, 168.
jeffreysi Pfr. xi, 93. 49
jelskii Lub. x, 58. 21
jimenezi Hid. x, 86. 18
johanninus Morel. = *Opeas*.
jonasi Pfr. xii, 54. 47
josephus Ang. xii, 32. 46
jousseau mei Dautz. 41
juana Cous. x, 164. 25
juarezi Pfr. xi, 136.
jucundus Fult. (Amphi.) xiii, 203.
jucundus Pfr. x, 82. 18
juglans Pfr. vii, 209.
juhnkuhni xiii, 138.
jungairinoi Hid. xii, 204.
juquilensis Mart. xii, 88.
jussieui Hupe xi, 26.
jussieui 'Val.' Pfr. xi, 25.
juvencus Mch. xiv, 52.
juvenilis Pfr. xi, 59. 30
- K
- kalaoensis Fult. xiii, 204.
 kambeul Brug. = *Limicolaria*.
kammereri Mch. xii, 25.
 kanalensis Cr. xiii, 38. 53
 kantavuensis Cr. xiii, 101. 55
kefersteinii Pfr. xi, 60.
 kelletti Rve. xii, 204. 65
keppelli Pfr. xi, 296.
 kershawi Braz. xiii, 123.
 kieneri Pfr. = *Macroceramus*.
 kingii Gray. xiii, 7. 51
 knoblauchii Kob. xiii, 43. 54
knorri Pfr. xi, 257.
 kobeltianus Doer. xiv, 86.
kobelti Rolle xiii, 216.
 kochi Pfr. xi, 314. 49
 koppel Sowb. xi, 242. 43
 koroensis Grt. xiii, 101. 55
 koseritzii Cless. xi, 79. 31
 krebsianus Pils. xi, 62. 30
 kreftii Cox xiii, 81. 55
 kremnoicus Orb. x, 15. 4
 kronei Iher. xiv, 118. 4
 kruijti Sar. xiii, 233.
 kuhnholzianus Cr. xiv, 74.
- L
- labeo Brod. xii, 199.
 labeo Rve. xii, 201.
- labiozonalis* Grat. viii, 16.
 labrella Grat. (Partula) viii, 48.
 labropurpureus Grat. viii, 8.
labrosus Mke. xiv, 63.
labyrinthus Ant. xiv, 95.
 lacerta Pfr. x, 115. 16
 lacrimosus Heimb. x, 199. 19
lactarius Mke. xi, 134.
 lacteus Brug. = *Melania*.
 lacteus Lea xi, 302. 45
 lacticolor Sowb. xiv, 172.
 lactifluus Pfr. x, 140. 24
 lacunosus Orb. x, 17. 5
 laetus Rve. xi, 245. 43
 laevigatus C. B. Ad. = *Opeas*.
 laevigatus Dh. = *Bitthinia*.
laevis Müll., Pils. xiii, 214.
 læviuseculus C. B. A. = *Euspiraxis*.
 lævolongus Boub. = *Rillya*.
 lævus Müll. xiii, 214; xiv, 167.
lagotis Mke. xi, 190.
 lalannei Gass. xiii, 44. 54
 lamareckianus Pfr. x, 75.
 lamas Higg. xi, 272. 44
 lamberti Gass. xiii, 49. 54
 lamellifer Pils. xi, 160. 36
 laminiferus Anc. xiv, 37.
 laosianus Bav. xiii, 183.
 lapidivagus Mab. xi, 161. 36
 largillierti Ph. x, 50. 21
 larreyi Braz. xiii, 124.
larvatus Brod. viii, 47.
 lascellesiana Sm. xii, 22. 46
 lateralis Mke. xi, 188. 39
 lateritius Pils. xi, 320. 39
 latestrigatus Schep. xiii, 207; xiv, 167.
 latevittata Sh. xii, 203. 65
 laticinctus Gupp. xii, 16. 46
latilabris Pfr. x, 85.
 latior Mart. xi, 251.
latistrigatus Fult. xiii, 208.
 latistrigatus Pils. xi, 176. 37
 lattrei Pfr. xii, 41. 47
 laurentii Sowb. x, 164. 25
lautus Gld. xi, 240.
 layardi Braz. xiii, 115. 56
layardi Kob. xiii, 33. 53
 leai Pils. xi, 213. 41
 leai Pfr. viii, 32.
 leeuwinensis Sm. xiii, 13. 51
 lehmanni Pfr. xi, 42. 29
 leimonias Gray = *Laoma*.
 LEIOSTRACUS Alb. xii, 90. 49
lemniscatus Dh. x, 156.
 lemoinei Anc. (Odont.) xiv, 90.
 lemoinei Cossm. 1889 = *Buliminus*.

- lentiginosus Ph. xiv, 158.
lentiginosus Redf. x, 73.
leopardus Pfr. viii, 9.
lepidus Gld. xiii, 190.
Leptobyrsus C. & F. xi, 155.
leptochilus Pfr. x, 40.
leptodon Mart. xiv, 74.
Leptomerus Alb. xi, 35.
leporis Lam. xi, 190.
leseuerianus Morel. x, 149.
lessoni Pet. xiii, 57.
 LEUCOCHARIS Pils. xiii, 67.
leucochilus F. & C. xii, 129.
leucolenus Cr. xiii, 42.
leucomelas Alb. xi, 274.
leucostictus Ph. x, 141.
leucostoma Cr. xiii, 36.
leucostoma Sowb. x, 18.
leucostomus Pfr. x, 19.
leucotrema Bk. xiv, 64.
leucoxanthus Mart. xiii, 163.
leucoxanthus Pfr.-Cless. xiii, 164.
levis Dall. xi, 140.
lherminieri Fisch. xi, 44.
liberianus Lea 1840 = Ennea.
libertadensis Pils. xi, 291.
librosus Pfr. viii, 12.
lichenifer Meh. viii, 54.
lichenorum Orb. x, 145.
lichenorum Rve. x, 145.
lichenum Bk. x, 145.
lichtensteini Alb. x, 32.
liebmanni Pfr. xii, 38.
lifouanus Cr. xiii, 48.
lifuana Pils. xiv, 17.
lignarius Pfr. vii, 205.
LIGUUS Montf. xii, 161.
liliaceus Fér. xii, 10.
lilacinus Rve. xii, 35.
lima Orb. 1842.
lima Reib. xi, 125.
limensis Rve. x, 158.
limnæformis, Meek & Hayd.
limnæoides Alb. xi, 43.
limnoides Fér. xi, 42.
limonoicus Orb. x, 165.
limpida Drt. xii, 223.
lindstedti Pfr. xiii, 228.
lineata Val. xii, 168.
lineatus Brug. = Macroceramus.
lineatus Drap. = Acicula.
lineatus Perry = Achatina.
lineatus Spix xii, 97.
lineolatus Braun. = Pupa.
lineolatus Con. xii, 57.
linostoma Bld. xi, 209.
linostoma Orb. xi, 218.
- 44 *liuteræ* Sowb. x, 67. 17
linteus Conrad. A. J. C. vi, 195. 17
Liostracus Mart. xii, 90.
Liparus Alb. xiii, 1. 50
Liparus Mart. xiii, 1. 50
liquabilis Rve. xi, 129.
lirinus Morel. xii, 57. 47
 LISSOACME Pils. x, 154. 25
listeri Fér. xiv, 61.
 25 *listeri* Wood x, 103.
 54 *lita* Fér. xi, 251.
 56 *lithoicus* Orb. x, 179. 28
 61 *litoralis* Brum. = Cochlicella.
 54 *lituratus* Spix xi, 251.
 44 *livens* Shutt. xii, 118. 61
 24 *livescens* Pfr. xii, 80. 48
 53 *livida* Mart. xii, 124. 61
 5 *lividus* Rve. xi, 301. 45
lobbi Rve. xi, 177. 37
lobbi Rve. xiv, 153. 37
longævus Anc. xiv, 163.
longævus Serres = Rillya.
 35 *longa* Pfr. xii, 126. 61
 29 *longinguus* Morel. xi, 293. 45
longiseta Moric. xi, 77. 31
 45 *longissimus* Orb. 1847 = Limnæa
long. Math. 1843.
 24 *longulus* Behn xiv, 53. 41
loratus Ant. = Achatinella.
 24 *lorentzianus* Doer. x, 197; xiv, 125. 5
 5 *lorenzii* Orb. x, 164.
 47 *loricatus* Pfr. xiii, 140.
 54 *loroisianus* Hupe xii, 183. 64
lotophaga Morel. = Streptostele.
loveni Pfr. x, 67. 17
 62 *loxanus* Higg. xi, 270. 44
 46 *loxensis* Mill. (Zebra), x, 52.
 47 *loxensis* Pfr. xi, 265. 43
loxostomus Pfr. x, 52. 21
loyaltyensis Souv. xiii, 69. 56
 25 *lubricus* Brug. = Cochlicopa.
luciæ Pils. xi, 86. 32
lucidus DaC. xi, 219.
 29 *lucidus* Rve. xii, 13.
 25 *ludovici* Pfr. = Macroceramus.
ludovicus Rang xii, 25.
lugubris Dkr. x, 68. 17
lugubris Pfr. = Achatinella.
luridus Pfr. x, 194. 26
lusorius Pfr. xi, 202. 41
lutea Ant. xii, 168.
 49 *lutea* Cous. x, 54.
lutea Fult. (Amph.), xiii, 233.
 47 *luteofasciatus* Fult. xiii, 223.
luteolus Anc. xiv, 145. 31
 41 *lutescens* King x, 36; xiv, 125. 5

<i>luzonicus</i> Sowb. viii, 44.		<i>maria</i> Alb. xi, 134.	35
<i>lychnorum</i> Sowb. x, 157.		<i>maria</i> Mor. xi, 230.	
<i>lyellii</i> Bk. xi, 125.		<i>marianus</i> Pils. xi, 230.	42
<i>lymnæformis</i> Roch. (Bocourtia)		<i>mariei</i> C. & F. xiii, 55.	54
xiv, 23.		<i>marielinus</i> Pöey. xii, 4.	46
<i>lymnoides</i> Rve. xi, 43.		<i>inarmarinus</i> Orb. xi, 194.	41
<i>lynciculus</i> D. & H. x, 94.	19	<i>marmatensis</i> Pfr. xi, 61.	30
<i>lyonetianus</i> Brug. = <i>Gibbus</i> .		<i>marmatensis</i> Pils. xii, 159.	62
<i>lyonetianus</i> Küst. xi, 189.		<i>marmoratus</i> Dkr. x, 40.	6
		<i>marmorinus</i> Alb. xi, 194.	
		<i>mars</i> Pfr. xii, 143.	61
		<i>martensianus</i> Pils. (Stroph.)	71
		<i>martensi</i> Bttg. (Amphi.) xiii, 158.	
		<i>martensii</i> Doer. (Odont.) xiv, 88.	
		<i>martensi</i> Kob. (Both.) xiv, 166.	51
		<i>martensi</i> Pfr. = <i>Achatinidæ</i> .	
		<i>martincensis</i> Pfr. xi, 47.	30
		<i>masoni</i> G.-A. xiii, 189.	
		<i>mastersi</i> Braz ix, 18.	
		<i>mastersi</i> Cox. xiii, 17.	51
		<i>Mustogyra</i> Anc. xii, 239.	
		<i>matthewsi</i> Bk. x, 18.	
		<i>mathiussi</i> Orb. x, 17.	5
		<i>maxima</i> Sowb. (<i>Cochlogena</i>) x, 15.	4
		<i>maximiliana</i> Fér. x, 100.	
		<i>maximus</i> Hupe. x, 13.	
		<i>mazei</i> Cr. xi, 48.	30
		<i>Megalobulimus</i> Mill. x, 194; xiv, 120.	
		<i>mejillonensis</i> Pfr. x, 177.	26
		<i>melanocheilus</i> Auct. xii, 110.	
		<i>melanocheilus</i> Nyst. x, 44.	21
		<i>melanocheilus</i> Val. xii, 123.	61
		<i>melanogaster</i> Meh. viii, 53.	
		<i>melanomma</i> Pfr. xiii, 161.	
		<i>melanoscolops</i> Dhn. xi, 231.	42
		<i>melanostoma</i> Gray xii, 178.	64
		<i>melanostoma</i> Mor. x, 101.	15
		<i>melanostomus</i> Auct. x, 103, 104, 106.	
		<i>melastoma</i> Sw. x, 102.	15
		<i>melastoma</i> Sw. xii, 178.	64
		<i>meleagris</i> Pfr. xi, 315.	49
		<i>melones</i> Fér. xiii, 4.	51
		<i>melo</i> Q. G. xiii, 5.	51
		<i>membeliinus</i> Cr. xi, 209.	41
		<i>membranacea</i> Mich. xii, 215.	66
		<i>membranaceus</i> Mart. xii, 74.	48
		<i>membranaceus</i> Ph. xi, 237.	42
		<i>membranaceus</i> Rve. xi, 312.	
		<i>mendanæ</i> Kob. xiii, 89.	55
		<i>mendozanus</i> Strob. xi, 71, 319.	31
		<i>menkeana</i> Fér. xiv, 52.	
		<i>menkei</i> Grun. xii, 28.	46
		<i>meobambensis</i> Pfr. xii, 191.	65
		<i>meobambicus</i> Moric. xi, 219.	
		<i>mercurius</i> Pfr. xiv, 140.	28
		<i>meridanus</i> Pfr. xi, 303.	45
<i>mabiliei</i> Cr. x, 79; xiv, 127.	17		
<i>macandrewi</i> Sowb. xii, 147.	61		
<i>macfarlandi</i> Braz. xiii, 83.	55		
<i>macfarlandi</i> Kob. xiii, 80.			
<i>macfarlandei</i> Paetel xiii, 83.			
<i>macgillivrayi</i> Pfr. xiii, 84.	55		
<i>macilentus</i> Rve. = <i>Opeas</i> .			
<i>macleayi</i> Braz. xiii, 121.			
<i>macluræ</i> Mart. xii, 125.	61		
<i>maconelli</i> Rve. xiii, 122.			
<i>MACRODONTES</i> xiv, 29.	57		
<i>macrospira</i> C. B. A. = <i>Stenogyra</i> .			
<i>macrostoma</i> Pfr. vii, 208.			
<i>maculatus</i> Brug. xi, 297.			
<i>maculatus</i> Fult. (Amphi.) xiii, 202.			
<i>maculatus</i> Lea. xi, 297.			
<i>maculiferus</i> Pils. xiii, 5.	51		
<i>maculiferus</i> Sowb. xiii, 130.			
<i>maculiferus</i> Doer. (Odont.) xiv, 78.			
<i>maculosus</i> Mart. xii, 32.	46		
<i>maderensis</i> Lowe = <i>Cochlicopa</i> .			
<i>magnificus</i> Grat. x, 46.	21		
<i>magnificus</i> Rve. xii, 185.	64		
<i>magus</i> Wagn. xi, 253.	43		
<i>mahogani</i> Pfr. x, 46.			
<i>mahogani</i> Sowb. x, 18.			
<i>major</i> Gass. xiii, 60.	54		
<i>major</i> Orb. xi, 286.			
<i>major</i> Orb. xiv, 70.			
<i>major</i> Strob. xiv, 98.			
<i>makassariensis</i> H. & J. xiii, 155.			
<i>malleata</i> Pils. xii, 230.	70		
<i>malleatus</i> DaC. xi, 249.	43		
<i>malleatus</i> Jay xiii, 112.	56		
<i>mangsianus</i> Pils. xiii, 223.			
<i>manica</i> Dh. = <i>Cerion</i> <i>mumia</i> .			
<i>manini</i> Cpr. xi, 115.			
<i>manoeli</i> Moric. xii, 96.	49		
<i>manuictus</i> Rve. xi, 304.	45		
<i>manzanillensis</i> Gdl. = <i>Melaniella</i> .			
<i>maracaibensis</i> Pfr. xii, 137; xiv, 164.	61		
<i>maranhonensis</i> Alb. xii, 198.	65		
<i>marcidus</i> Pfr. xiv, 146.	31		
<i>mareana</i> Cr. xiii, 46.	54		

meridionalis Gistel, 1848 = Bulim-nus.		montevidensis Pfr. xi, 68, 320.	30
<i>mesembrinus</i> Alb. xi, 192.		montezuma Dall xi, 144.	35
metabletus Mlldff. xiii, 174, 237; xiv, 168.		monticola Dall xi, 150.	36
metamorphus Pils. x, 157.	25	monticola Doer. x, 181.	
METOSTRACON Pils. xii, 232.		<i>monticola</i> Ph. x, 187.	
METORTHALICUS Pils. xii, 192.	65	montivagus Orb. xi, 90; xiv, 147.	32
mexicanus Lam. xi, 291.	45	mooreanus W. G. B. xi, 130.	35
<i>mexicanus</i> Rve. xii, 74.	48	morbidus Ph. xi, 283.	44
<i>mexilloensis</i> Schauf. x, 177.		MORICANDIA P. & V. xiv, 40.	57
meyeri Reuss, 1849.		morieandi Pfr. xii, 78.	48
michaudi Boiss. 1848 = Rillyia.		<i>morieandi</i> (Succinea) Pfr. xii, 221.	
<i>michaudi</i> Montr. xiv, 15.		moritinctus Mart. xii, 79.	48
miera Orb. = Opeas.		moritzianus Pfr. x, 39.	6
microceras Braun = Moitessieria.		<i>Mormus</i> Alb. xi, 192.	
microdon Pfr. = Macroceramus.		morosus Gld. xiii, 113.	56
midas Alb. x, 119.	16	mossi Sm. xii, 21.	46
miersli Pfr. xii, 218.	66	motaguæ Mart. xii, 65.	48
miersii Sowb. x, 124.	8	mouhoti Pfr. xiii, 186.	
miliarius Ph. xi, 281.	44	<i>moussonii</i> Graeffe xiii, 104.	56
miliola Orb. xiv, 52.		moussoni Pfr. xii, 8.	46
millegranus Mart. xi, 170.	37	moutonii Coll. = Cochlicella.	
milleri Sowb. x, 8; xiv, 118.	4	<i>moyobambensis</i> Mart. xii, 191.	
miltocheilus Rve. xiii, 94.	55	mucidus Gld. = Pe nderis.	42
miltochrous Alb. xi, 290.	45	muliebris Rve. xi, 216.	
mimarum Anc. xiv, 154.	38	mülleri Orb. = Glandina.	
mindoroensis Brod. viii, 53.		multicoior Mlldff. xiii, 131.	
minimus Brug. = Carychium.		multicolor Rang x, 123.	6
minimus C. B. Ad. = ? Opeas.		multicosta Gdl. = Melaniella.	
minor Braz. xiii, 95.	55	multidentatus Doer. xiv, 99.	
minor Doer. xiv, 99.		multifasciatus Fult. (Amphi.) xiii, 195.	
minor Kob. xiii, 86.	55	multifasciatus Lm. xii, 14.	46
minor Mart. xi, 56.	30	multilineatus Say xii, 27.	46
minor Müll. xii, 156.	62	multiplicatus Doer. xiv, 101.	
minor Orb. xiv, 71.		multispiratus Doer. xiv, 89.	
minor Pils. xiii, 12.	51	mumia Brug. = Cerion.	
minutus Klein. = Subulina.		mundus Pfr. xiii, 174.	
mirabilis C. B. Ad. = Nothus.		munieri v. Haut.	
mirus Dh. = Megalomastoma.		munsteri Orb. x, 185.	26
mitra Mart. xiii, 155.		muricatus Brug. = Melaniidæ.	
modestus Brod. x, 161.	25	<i>murrea</i> Rve. xii, 168.	
moestai Dkr. xi, 6.	27	murrinus Rve. xi, 214.	42
moguntianus Fauj. = Littorinella.		mus Brod. viii, 6.	
molecillus Rve. xi, 63.	30	muscorum Brug. = Pupa.	
monachus Pfr. xi, 282.	44	<i>musicus</i> Paet. xi, 229.	
monackensis Cr. xiii, 58.	54	<i>musicus</i> Pfr. xi, 229.	
moniezi Dautz. xiv, 136.	24	mutabilis Brod. xi, 14.	28
monile Brug. = Melampus.		<i>mutabilis</i> Sowb. xi, 16.	
<i>monilifer</i> Rve. xiv, 145.		<i>mycrostoma</i> Hass. xiii, 137.	
moniliferus Gld. xiii, 179.		<i>myersii</i> Sowb. (Bulinus) x, 7.	
monozona Anc. xiv, 163.		myoporinæ Tate. = Pupoides.	
monozonalis Dh. x, 47.	21	myristicus Rve. xi, 178; xiv, 154.	37
<i>monozonus</i> Pfr. vii, 207.			
montagnei Orb. xi, 280.	44		
montanus Pils. xiv, 161.	45		
montevalensis Schaur.			

N

NÆSIOTUS Alb. xi, 94; xiv, 150. 33
 ninus Lam. 1804 = Rissoidæ.

<i>nanus</i> Rve. x, 141.	24, 71	<i>nucleus</i> Sowb. x, 35.	
<i>napo</i> Ang. xi, 244.	43	<i>nudus</i> Reib. xi, 103.	33
<i>narcissus</i> Alb. xi, 227.	42	<i>nux</i> Brod. xi, 100.	33
<i>nasutus</i> Mart. xiv, 44.		<i>niveus</i> Bk. xii, 2.	
<i>nasutus</i> (<i>Helix</i>) Metc. xiv, 12.		<i>nympha</i> Pfr. viii, 23.	
<i>natunensis</i> Fult. xiii, 162.		<i>nystianus</i> Pfr. xi, 262.	44
<i>navarrensis</i> Ang. xii, 63.			
<i>Navicula</i> Spix xi, 185.		○	
<i>navicula</i> Wagn. xi, 186.	39	<i>obductus</i> F. & C. xii, 116.	
<i>nebulosus</i> Mart. xii, 43.	47	<i>obductus</i> Sh. xii, 134.	61
<i>neckliaiensis</i> Kob. xiii, 56.	54	<i>obesus</i> Mart. xii, 78.	48
<i>necouensis</i> Gass. xiii, 40.	53	<i>obesus</i> Mart. xiii, 148.	
<i>neglectus</i> Pfr. xiv, 91.		<i>obliquistriatus</i> DaC. xiv, 157.	44
<i>nehringi</i> Mts. x, 51.	21	<i>obliquus</i> Rve. xii, 93; xiv, 163.	49
<i>memoralis</i> Zgl. Villa, Disp. p. 21.		<i>oblitus</i> Rve. xiv, 91.	
<i>memorensis</i> Ph. xi, 22.	28	<i>oblongus</i> Müll. x, 29; xiv, 122.	5
<i>NEOPETRÆUS</i> Mart. xi, 163; xiv,	36	<i>obscurus</i> Fult. xiii, 131.	
152.		<i>obsoletus</i> Morel. = <i>Limicolaria</i> .	
<i>neozelanicus</i> Hutt. xiii, 25.		<i>obtusa</i> Pfr. xii, 215.	66
<i>Nesiotes</i> Mart. xi, 94.		<i>obtusa</i> Sowb. xii, 216.	66
<i>nesioticus</i> Dall. xi, 122.	34	<i>obtusatus</i> Pfr. = <i>Obeliscus</i> .	
<i>Nesiotus</i> Cless. xi, 94.		<i>occidentalis</i> Mill. xi, 266.	
<i>nichollsi</i> Br. xi, 40.	29	<i>occulatus</i> Rve. xiv, 48.	
<i>nicobaricus</i> Nev. xiii, 218.		<i>ochraceus</i> Bk. xi, 31; xii, 2.	
<i>nigra</i> Gass. xiii, 63.	54	<i>ochraceus</i> Morel. xi, 31.	28
<i>nigricans</i> Cous. x, 54; xi, 263.		<i>ochrocheilus</i> Sm. xi, 204.	41
<i>nigricans</i> Cr. xiii, 36.	53	<i>ochrostoma</i> Grt. xiii, 108.	56
<i>nigrilabris</i> Pils. (<i>Auris</i>) x, 102.	15	<i>ochsenii</i> Dkr. xi, 10.	27
<i>nigroapicatus</i> Pfr. xi, 284.	44	<i>octodentatum</i> (<i>Anost.</i>) Waldh. xiv,	
<i>nigrofasciatus</i> Pfr. xi, 307.	45	110.	
<i>nigrofilosus</i> Roch. xiii, 132, 166.		<i>octonoides</i> C. B. Ad. = <i>Opeas</i> .	
<i>nigrogularis</i> Dh. xi, 225.	42	<i>oconus</i> Brug. = <i>Subulina</i> .	
<i>nigrolimbatus</i> Pfr. xi, 315.	49	<i>ODONTOSTOMINÆ</i> xiv, 24.	57
<i>nigrolineata</i> Sh. xii, 229.	70	<i>ODONTOSTOMUS</i> Bk. xiv, 38.	57
<i>nigromontanus</i> Dall. xi, 128.	35	<i>odontostomus</i> Sowb. xiv, 31.	
<i>nigropileatus</i> Rve. x, 182; xiv, 137.	26	<i>olainensis</i> Doer. xiv, 79.	
		<i>olivacea</i> Cous. x, 54.	
<i>nimbosus</i> Brod. viii, 21.		<i>olla</i> Dall xi, 113.	34
<i>nitelinus</i> Rve. xii, 38.		<i>olorinus</i> Ducl. x, 174.	
<i>nitidissimus</i> Kryn. = <i>Achatinidae</i> .		<i>omphalodes</i> Mke. xii, 92.	49
<i>nitidiusculus</i> C. B. A. = <i>Euspiraxis</i> .		<i>Omphalostyla</i> Ads. xi, 94.	
<i>nitidulus</i> Bk. xi, 266; xii, 53.		<i>onager</i> Bk. xii, 94.	49
<i>nitidulus</i> Pfr. = <i>Pupoides</i> .		<i>onca</i> Orb. x, 93.	19
<i>nitidus</i> Brod. xi, 266.		<i>onslowi</i> Cox xiii, 11.	51
<i>nitidus</i> Lam. 1804 Eocene.		<i>onyx</i> Brod. vii, 199.	
<i>nivalis</i> Orb. xi, 72.	31	<i>onza</i> Alb. x, 94.	
<i>niveus</i> Heg. xi, 131.		<i>oosomus</i> Pils. x, 27.	5
<i>niveus</i> Sar. xiii, 149.		<i>opalinus</i> Sowb. xii, 98.	49
<i>nobilis</i> Rolle xii, 124; xiv, 164.	61	<i>orbignyi</i> Pfr. x, 162.	
<i>nobilis</i> Rve. viii, 10.		<i>oreades</i> Orb. xi, 277.	44
<i>novemgyratus</i> Mss. = <i>Opeas</i> .		<i>orientalis</i> Kob. xiii, 52.	54
<i>novenarius</i> Zgl. = <i>Subulina</i> .		<i>ornatus</i> Fult. xiii, 223.	
<i>novoseelandicus</i> Pfr. xiii, 24.	53	<i>orobænus</i> Orb. xi, 236.	42
<i>nuberculatus</i> Pfr. xi, 55.	30	<i>orophilus</i> Morel. x, 183; xiv, 137.	26
<i>nuciformis</i> Pet. xi, 101.		<i>Orphacius</i> Schauf. x, 198.	
<i>nucinus</i> Rve. xi, 24.	28	<i>Orphnus</i> Alb. x, 43.	
<i>nucula</i> Pfr. xi, 106.	33		

Orthalichus Mart. xii, 101.
Orthalicinus F. & C. xii, 161.
 ORTHALICINÆ xii, 99.
Orthalicus Auct. xii, 101.
 ORTHALICUS Bk. xii, 186.
Orthaliscus Gray xii, 186.
orthelasmus Pils. xi, 159.
orthodoxus Dr. xi, 64.
orthostoma Sm. xi, 200.
 ORTHOTOMIUM C. & F. xi, 125.
oryza Brug. = ? *Opeas*.
oscitans Mart. xiii, 204.
otaheitanus Brug. = *Partula*.
Ostotomus Auct. xi, 185.
 OTOSTOMUS Bk. x, 107.
Ostotomus Mart. xi, 182.
otostomus Pfr. x, 117.
ouagapensis Kob. xiii, 36.
ouveanus Dotz. xiii, 47.
ouensis Gass. xiii, 43.
ovalis Gmel. x, 25.
ovalis Kob. xiii, 45.
ovata Cr. xiii, 41, 45.
ovata Sowb. xii, 216.
ovatus Müll. x, 24.
ovipara (Helix) x, 196.
ovoideus Brug. viii, 44.
ovularis Oliv. 1801 = *Pupa*.
ovulum Rve. xi, 88.
ovulus Brug. = *Melampus*.
ovum Ads. x, 25.
ovum Fèr. xiv, 171.
ovum Desh. xiii, 4.
ovum Gistel = *inflatus* Lam.
 OXYCHONA Mch. xi, 181.
oxylabris Doer. x, 190.
Oxystrombus Mch. xii, 161.
 OXYSTYLA Schlüt. xii, 101.

P

pachychilus Pfr. x, 35.
Pachyota Agas. x, 95.
Pachyotus Bk. x, 95.
pachys Pils. xi, 88.
paeteli Alb. xi, 295.
paeteli Kob. xiii, 102.
paivanus Pfr. xii, 38.
palaceus Busch. xiii, 134.
palawanensis Pfr. viii, 14.
paletuvianus Gass. xiii, 80.
pallida Sw. xii, 168.
pallidior Sowb. xi, 142.
pallidula Cr. xiii, 42.
pallidulus Pils. xiii, 144.
pallidus C. B. Ad. = *Subulina*.
pallidus Reib. xi, 112.

pallidus Tate xiii, 15. 51
palliolum Fèr. xii, 231. 67
 57 *palmarum* Mss. xiii, 85. 55
 61 *palpaloensis* Streb. xii, 74. 48
 64 *palustris* Brug. = *Limnæa*.
panamensis Brod. xii, 90. 48
 36 *panayensis* Pfr. = *Opeas*.
 30 *pancheri* Cr. xiii, 67. 56
 41 *PANDA* Alb. xiii, 122.
 34 *panescorsi* Math. 1842.
pangœ Morel. x, 198.
paulistus P. & I. xiv, 33.
pan Pfr. viii, 50.
pantagruelinus Moric. xiv, 63.
 15 *papillaris* Brug. = *Clausilia*.
papillatus Mor. xi, 169. 37
paposensis Pfr. x, 178. 26
 53 *papyraceus* Mawe. xi, 250. 43
 54 *papyrifactus* Pils. xi, 252. 43
paradoxus Pfr. viii, 49.
paraguayanus Anc. xiv, 71.
 54 *parallelus* Pfr. xiv, 48.
 54 *paranaguensis* Pils. & Iher. xiv, 124. 5
 66 *pardalina* Gupp. xii, 237. 69
 5 *pardalis* Fèr. x, 39. 6
pardalis Rve. x, 41.
parolinianus Orb. = *Azeca*.
 32 *partuloides* Brod. viii, 50.
paru Bk. xiv, 43.
parvus Lea xii, 29. 46
pastorella Val. viii, 16.
 51 *patagonicus* Orb. xiv, 95. 171
patasensis Pfr. xi, 176; xiv, 153. 37
 37 *patens* Gass. xiii, 40. 53
 26 *patriarcha* W. G. B. xi, 132. 35
patricius Rve. xii, 36.
 60 *patula* Brug. xii, 234. 69
patulus Kob. xiii, 236. 53
pauperculus C. B. Ad. = *Euspiraxis*.
 5 *paucipunctus* Pils. xi, 255. 43
pavonina Spix. xii, 189. 65
pazianus Orb. xi, 277. 44
 32 *pazianus* Tristr. xii, 41.
 45 *pealei* Paetel xi, 205.
 56 *pealianus* Lea xi, 217. 42
peasei Cox xiii, 117. 56
Pectella Gray xii, 231.
peculiaris Kob. xiii, 42. 54
 55 *pedipes* Brug. = *Pedipes*.
peelii Rve. xi, 205; xiv, 154. 41
 35 *Pelecocheilus* Alb. x, 64.
Pelecostoma Reib. xi, 94.
Pelecycheilus Mart. x, 64.
Pelecychilus Mart. x, 108.
 34 *Pelekocheilus* Bk. x, 64.

<p> <i>peliosotomus</i> 'Ph.' Pfr. x, 147. 25 <i>PELLICULA</i> Fisch. xii, 241. 70 <i>pellucidus</i> Gistel 1848 = <i>Buliminus</i>. <i>PELTELLE</i> W. & B. xii, 231. 67 <i>pentadina</i> Orb. (<i>Helix</i>) x, 93. <i>pentagruelinus</i> Dh. xiv, 64. <i>pentlandi</i> Rve. xi, 27. 28 <i>perakensis</i> Fult. xiv, 282. <i>percomis</i> Schauf. xi, 259. <i>perdix</i> Pfr. x, 118. 16 <i>peregrus</i> Brug. = <i>Limnæa</i>. <i>perelegans</i> Pils. xi, 11. 27 <i>perenensis</i> DaC. xiv, 156. 42 <i>pergranulatus</i> Pils. xiv, 120. <i>pericanus</i> Ads. x, 180. <i>perincrassatus</i> Pils. xi, 169. <i>peristomatus</i> Doer. xi, 29. <i>perla</i> Müll. = <i>Physa</i>. <i>perlonga</i> Pils. xii, 117. <i>perlucidus</i> Spix xii, 98. <i>PERONÆUS</i> Alb. x, 138. 49 <i>perplexus</i> Sowb. (<i>Bulinus</i>) x, 7. 24 <i>perrieri</i> Roch. xiii, 181. <i>perspectivus</i> Pfr. xi, 110. 33 <i>pertristis</i> Pils. xi, 301. 45 <i>peruvianus</i> Brug. xi, 7. 27 <i>pervariabilis</i> Pfr. xi, 300. 45 <i>perversus</i> Brug. = <i>Balea</i>. <i>perversa</i> Don. xiii, 160. <i>perversa</i> Spix xii, 180. <i>perversus</i> Auct. xiii, 179. <i>perversus</i> L. xiii, 147. <i>perversus</i> Sw. xii, 178. <i>pervius</i> Pfr. xiv, 139. <i>pessulatus</i> Rve. x, 188. <i>petasites</i> Mill. xi, 199. <i>petenensis</i> Morel. xi, 54. <i>petiti</i> Pfr. xi, 21. <i>pfeifferianus</i> Rve. viii, 21. <i>pfeifferi</i> Hid. (<i>Corona</i>), xii, 146. <i>pfeifferi</i> Kob. xiii, 109. <i>phæostylus</i> Pfr. viii, 41. <i>phasianella</i> Val. xii, 151. <i>phasianus</i> Perry = <i>Phasianella</i>. <i>philippii</i> Doer. xiv, 75. <i>philippii</i> Pfr. x, 162. <i>philippinensis</i> Pfr. vii, 201. <i>phlogera</i> Orb. xii, 145; xiv, 165. 61 <i>phlogerus</i> Pfr. xii, 144. <i>phæbus</i> Pfr. x, 81. 17 <i>phryne</i> Pfr. xi, 215. 42 <i>physalis</i> Bs. xiv, 8. <i>physodes</i> Mke. xiii, 9, 234. 51 <i>physoides</i> Rve. xiii, 9. 51 <i>pichardi</i> Arango = <i>Melaniella</i>. <i>picta</i> Rve. xii, 168, 171. <i>pictor</i> Pfr. viii, 8. </p>	<p> <i>picturata</i> Fér. xii, 15. <i>pictus</i> Bonnet xi, 286. <i>pictus</i> Brug. = <i>Melaniidæ</i>. <i>pictus</i> Fult. (<i>Amphi</i>.) xiii, 226. <i>piescheli</i> Mart. xii, 34. <i>pileatus</i> Dall. xi, 109. <i>pileiformis</i> Moric., xiv, 149. 33 <i>pilosus</i> Gupp. xi, 85. 32 <i>pilsbryi</i> Ford xiv, 38. 32 <i>pilsbryi</i> Iher. xiv, 118. 4 <i>pilula</i> W. G. B. xi, 138. 35 <i>pinicola</i> Gass xiii, 42. 53 <i>pintadinus</i> Orb. x, 93. 19 <i>piperatoides</i> Pils. xiv, 132. 19 <i>piperatus</i> Rve. x, 89. 19 <i>piperitus</i> Sowb. x, 89. 19 <i>pittieri</i> Mart. xii, 61. 47 <i>piuranus</i> Alb. x, 180. 26 <i>placidus</i> Fult. xiii, 225. <i>PLACOSTYLUS</i> Beck. xiii, 19. 51 <i>placostylus</i> Mlldff. xiii, 178. <i>PLAGIODONTES</i> Doer. xiv, 92. 57 <i>planidens</i> Mich. x, 7. 4 <i>planospira</i> Anc. xi, 104. 33 <i>platystomus</i> Pfr. xi, 172; xiv, 153. 37 <i>PLATYSUCCINEA</i> Anc. xii, 223. 67 <i>Plecocheilus</i> Ads. x, 64. <i>PLECTOSTYLUS</i> Bk. xi, 2. 27 <i>plectostylus</i> Pfr. x, 70. 17 <i>plectostylus</i> Pfr. xiv, 129. 18 <i>PLEKOCHILUS</i> Gldg. x, 62, 64. 17 <i>Plecocheilus</i> Gray x, 64. <i>plicarius</i> Brus. = <i>Melaniidæ</i>. <i>plicatoliratus</i> DaC. xi, 260. 43 <i>plicatulus</i> Pfr. xi, 72. 31 <i>plicatus</i> Guild. = <i>Achatinidæ</i>. <i>PLICOCOLUMNA</i> Coop. xi, 151. 36 <i>pliculatus</i> Pfr.-Cless. xiv, 146. 31 <i>pliculosa</i> Anc. xiv, 139. <i>plumbeus</i> Pfr. x, 49. 21 <i>pluto</i> Cr. xi, 20. 28 <i>pluviatilis</i> Pfr. xii, 64. 47 <i>pochutlensis</i> C. & F. xii, 76. 48 <i>PŒCILCHARIS</i> Kob. xiii, 73. 55 <i>pœcilochoa</i> Bttg. xiii, 200. <i>pœcilogramma</i> Anc. xiv, 163. <i>pœcilus</i> Bttg. (<i>Amphi</i>.) xiii, 139. <i>poecilus</i> Orb. xi, 285. 44 <i>poeyanus</i> Pfr. xii, 166. 63 <i>poeyanus</i> Pfr. = <i>Glandinella</i>. <i>politus</i> Edw. = <i>Tomichia</i>. <i>politus</i> Rve. viii, 20. <i>polloneræ</i> Anc. xiv, 148. 32 <i>polygrammus</i> Moric. xi, 252. 43 <i>polymorphus</i> T. C. xiii, 171. <i>polymorphus</i> Orb. xi, 28. 28 </p>
--	---

- ponderosus* C. & J. xiv, 171.
ponderosa Streb. xii, 130.
ponsonbyi Ang. xiii, 124.
popanus Doer. xiv, 77.
popelairiana Nyst. x, 13.
porcellanus Mss. xiii, 261.
porcellanus Roch. xiii, 194.
porphyreus Pfr. x, 60.
porphyrius Pfr. x, 61.
Porphyrobaphe Auct. xii, 192.
PORPHYROBAPHE Sh. xii, 149.
porphyrochila Dautz. et Bern. xiv, 167.
porphyrostomus Pfr. xiii, 57.
porraceus Jay. viii, 48.
porrectus Mart. xii, 44.
portei Pfr. vii, 207.
portii Pfr. vii, 207.
portoricensis Sh. xii, 224.
pouenanus Kob. xiii, 63.
powisianus Pet. xii, 206.
poyensis Kob. xiii, 61.
præcilus Ant. xi, 286.
prærosus Brug. = *Melanopsis*.
prætextus Rve. xi, 238.
priamus Brug. = *Halia*.
prillwitzii Bttg. xiii, 139.
primularis Rve. xi, 292.
primula Rve. xvi, 247.
principalis Sowb. (Tomig.) xiv, 107.
princeps Brod. xii, 113.
pringi Pfr. = *Cochlicella*.
proboscideus Math. 1842 (*Ampul-*
laria) = *Anadromus*.
procerula Cr. xiii, 36.
procerus C. B. Ad. = *Euspiraxis*.
proclivis Mart. x, 195; xiv, 122.
prodeflexus Pils. x, 91.
productus 'Ph.' Pfr. x, 148.
profundidens Doer. xiv, 81.
progaster Orb. xii, 223.
prolatus Gld. xi, 318.
promethus Cr. xi, 28.
pronyensis Gass. = *Stenogyra*.
prostratus Schaaf. xi, 225.
proteiformis Dhrn. xi, 14.
proteli Moric. xiv, 173.
proteus Binn. xi, 143.
proteus Brod. xi, 13; xiv, 140.
proteus Gldg. xi, 13; xii, 25.
PROTOGLYPTUS Pils. xi, 84.
prototypus Pils. xii, 137; xiv, 164.
protractus Pfr. xi, 224.
provensali Nicol. = *Nicolasia*.
proximus Fult. (*Amphi*.) xiii, 198.
proximus Sowb. x, 22.
pruinosis Sowb. x, 175.
pseudocaledonicus Montr. xiii, 62.
pseudonyma Pils. xi, 278.
PSEUDOPAKTULA Pfr. xiv, 9.
pseudopiperatus Mor. x, 89.
Pseudorhodea Dall. xi, 151.
pseudosexdentatus Doer. xiv, 85.
pseudosuccinea Moric. xii, 221.
Pseudotrochus Mch. xii, 161.
psidii Mts. xii, 224.
ptychostylus Pfr. xi, 178.
pubescens Moric. xi, 81.
pucaranus Doer. xiv, 83.
pucuranus Doer. xiv, 82.
pudicus Müll. x, 6; xiv, 116.
pudicus Pfr. xiv, 117.
puellaris Bolt. xii, 164.
puellaris Rve. xi, 66.
pugio Bk. xii, 2.
pulchella Spix. xii, 135.
pulchellus Brod. xi, 223, 274.
pulcherrimus Ad. xi, 260.
pulicarius Bk. xi, 7; xiv, 132.
pulicarius Rve. x, 78.
pullata Fér. (*Helix*) x, 49.
pumicatus Migh. = *Auriculella*.
pumilus Pfr. = *Opeas*.
punctatissimus Less. xiv, 57.
puncticulatus Pfr. xi, 226; xiv, 158.
punctulifer Sowb. xi, 317.
pupæformis Cantr. = *Azeca*.
pupiformis Brod. x, 139.
pupoides Ant. = *Omphalotropis*.
pupoides Spix (*Clausilia*) xiv, 60.
pupulus Morel. = *Ennea*.
purissimus Pils. xiii, 144.
purpurascens Brug. = *Achatina*.
purpuratus Rve. xi, 21.
purus Mss. xiii, 135.
purus Pils. xi, 229.
pusillus Brong. = *Hydrobia*.
pusillus (*Bulimulus*) H. Ad. = ?
Opeas.
pustulosus Brod. x, 153.
pygmæus Brong. = *Hydrobia*.
pyramidalis Pfr. viii, 29.
Pyrgus Alb. x, 135.
pyriformis Pils. xiv, 72.
pyrostomus Pfr. xiii, 70.

Q

- quadricolor* Pfr. x, 83.
quadrifasciatus Ang. xi, 243.
quadrifasciatus Mart. xii, 43.

quadrifasciatus Sch. xi, 259.
quadras Hid. xiii, 229.
quagga Hass. xiii, 234.
quinesfasciatus Sch. xi, 259.
quitensis Pfr. x, 158.
quoyi Cox. xiii, 8.
quoyi Pfr. viii, 30.

R

rabuti Jouss. xi, 239. 42
radiatus Morel. x, 182; xiv, 137. 26
ragdsdalei Pils. xi, 129. 35
raimondianus Pils. x, 167.
ramagei E. A. Sm. xiv, 103.
rambiensis Grt. xiii, 168. 56
ramentosus Coop. xi, 153. 36
rawsoni Gupp. xii, 20. 46
rawsonis Bld. xii, 239. 69
rawsonis H. Ad. xii, 20. 46
recedens Pfr. xi, 221. 41
recluzianus Pfr. xii, 55. 47
recognitus Mab. xi, 137. 35
reconditus Rve. x, 181; xiv, 137. 26
recta Müll. xiii, 168.
rectilinearis Pfr. xi, 232; xiv, 153. 42
rectistrigatus Pils. xi, 176. 37
redditus Rve. xi, 91.
reentsi Ph. x, 155. 25
reentsii Ph. (Helix), x, 129. 23
reevei Desh. (Odont.) xiv, 48.
reevei Pfr. vii, 206.
reevii Brod. vii, 206.
reflexilabris Schep. xiii, 206.
reflexus Pfr. xi, 9. 27
regalis Hupe xii, 180. 64
regina Auct. xii, 181. 64
regina Bowd. (Helix) xiv, 165. 64
regina Fér. xii, 177. 64
regina Hupe xii, 179. 64
reibischi Dall xi, 122. 34
reinianus (Bulimulus) Kob. = Buli minus.
remotus Hedl. xiii, 76. 55
requieni Pfr. x, 55. 21
reses Say xii, 109. 61
resupinata Schum. (Angystoma) xiv, 111.
reticulatus Doer. xiv, 88.
retusus Oliv. 1801 = Clausilia.
revinctus Hupe xi, 17. 28
Rhabdotus Alb. xi, 127.
Rhabdotus Auct. x, 154.
Rhaphiellus Pfr. xi, 94.
rhinocheti Kob. xiii, 52. 54
RHINUS Alb. xi, 74. 31
rhizophorareus Gass. xiii, 80.

rhizophorarum Gass. xiii, 80.
rhizophorarus Gass. xiii, 80. 55
rhodacme Pfr. x, 152. 25
rhodinostoma Orb. xiv, 51.
rhodocheilus Rve. x, 8. 4
rhodolarynx Rve. xi, 171. 37
RHODONYX Fisch. xii, 239. 69
rhodospirus P. & M. x, 103.
rhodostoma Gray xiii, 14. 51
rhodostylus Mlldff. xiv, 168.
rhodotrema Mart. xii, 69. 48
ribeiroi Tourn. 1879, Mioc.
ridleyi Sm. xi, 82; xiv, 103.
riisei Pfr. xi, 41. 29
rillyensis Boiss (Pupa) = Rillyia.
rimatus Pfr. xi, 157. 36
ringens auct. (Anost.) xiv, 111.
ringens Dkr. xiv, 49.
ringens Jay. xiv, 64.
ringens L. (Anost.) xiv, 114.
ringens Sowb. (Helicodon) xiv, 113.
RINGICELLA Gray xiv, 114.
ringicula Fér. (Helix) xiv, 115.
riochanus Doer. xiv, 84.
riojanus Doer. xiv, 83.
rivasii Orb. xi, 91. 32
robustus Fult. xiii, 139.
rocæ Doer. xiv, 97.
rocayanus Orb. xi, 321. 44
roemeri Pfr. xiii, 192.
roeseleri Mlldff. xiii, 144.
romblonensis Pfr. viii, 16.
rosaceus King x, 33. 5
rosea Fult. xiii, 233.
rosca Spix. (Ampullaria) x, 30.
roseatus Rve. xi, 301; xiv, 161. 45
roseolabiatu Fult. xiii, 188.
roseolabrum Sm. x, 73. 17
roseotincta Mlldff. xiii, 170, 237.
roseotinctus Mlldff. xiv, 169.
roseus Ads. xiii, 106.
rossiteri Braz. xiii, 34. 53
rossiteri Hartm. xiii, 73. 55
ronaulti Hupé x, 176. 26
rubellus Brod. xi, 275. 44
rubescens Dh. xii, 240. 70
rubescens Rve. x, 157.
rubidus Zgl. Villa, p. 21.
rubiginosus Fult. xiii, 224.
rubra Pfr. xii, 25.
rubrifasciatus Rve. xi, 38.
rubrovariegatus Higg. xi, 270. 44
rudis Ant. xii, 49. 47
rufescens Ads. xii, 217. 66
rufescens Gray xii, 9.
rufocinctus Fult. xiii, 223.
rufogaster Pfr. vii, 207.

rufolineatus Dr. xi, 308.	45	scarabus Alb. xiii, 65.	54
rufopictus Bs. xiv, 5.		<i>schiedeanus</i> Auct. xi, 180.	
rufovirens Moric. xii, 216.	66	<i>schiedeanus</i> Pfr. xi, 131.	35
<i>rufus</i> Gass. xiii, 63.	54	<i>schmidti</i> Pfr. xi, 195.	41
ruga Hartm. xiii, 119.	56	<i>schomburgki</i> Pfr. xiii, 182.	
rugatus Grt. xiii, 112.	56	<i>scitulus</i> Rve. xi, 271.	44
<i>rugifer</i> Bk. xi, 121.		<i>scitus</i> H. Ad. xi, 224.	42
rugiferus Sowb. xi, 121.	34	<i>scobinatus</i> Wood xi, 77.	31
<i>rugosa</i> Val. (<i>Lymnæa</i>) xii, 33.		<i>scoliodes</i> Dautz.	41
rugulosus Sowb. xi, 103.	33	<i>scottii</i> Cox. xiii, 90.	55
<i>rupicolus</i> Rve. xi, 6.		<i>sculpturatus</i> Pfr. xi, 120.	34
rushii Pils. xi, 70.	31	<i>SCUTALUS</i> Alb. xi, 12.	28
rusticellus Morel. x, 170.	25	<i>scutillus</i> Migh. 1845.	
rusticus Mouss. vii, 187.		<i>scutulatus</i> Brod. x, 165.	25
		<i>scytodes</i> Pfr. x, 84.	18
		<i>sealianus</i> Fbs.	
		<i>sectilabris</i> Pfr. xiv, 61.	
		<i>seemanni</i> Dhn. xiii, 100.	55
		<i>sellersi</i> Cox xiii, 95.	55
	44	<i>semicinctus</i> Pils. xi, 44.	29
<i>saccatus</i> Pfr. xi, 223.		<i>Semiclausaria</i> Pfr. xi, 191.	
sachsei Alb. xi, 273.		<i>semifasciatus</i> Mss. xi, 298.	45
salernensis Math. 1870.		<i>semifrenatus</i> Mart. xiii, 219.	
salleanus Rve. = <i>Stenogyra</i> .		<i>semilineata</i> Mke. (<i>Helix</i>) x, 30.	
sallei Pils. xii, 11.	46	<i>semimaculatus</i> Pils. xi, 297; xii, 71;	
salinicola Doer. xiv, 99.		xiv, 159.	45, 48
salinicola Doer. xiv, 87.		<i>seminiger</i> Mke. = <i>Achatinella</i> .	
salomonina Pfr. (<i>Simp.</i>) xii, 226.	55	<i>semipellucidus</i> Tris. xii, 82.	48
<i>salomonis</i> Alb. (<i>Simp.</i>) xii, 226.	21	<i>semipictus</i> Hid. x, 87.	19
<i>salomonis</i> Pfr. xiii, 69.	55	<i>semistriatus</i> Morel. = <i>Stenogyra</i> .	
salteri Sowb. x, 52.	32	<i>semitessellatus</i> Morl. xiii, 194.	
sanchristovalensis Cox xiii, 97.		<i>semperi</i> Dhn. x, 94.	19
sanctæluiciæ Sm. xi, 86.		<i>seneri</i> Jous. x, 31.	5
<i>santacruzensis</i> Pfr. x, 17.	5	<i>senilis</i> Gass. xiii, 53.	54
<i>santæcrucis</i> Bk. x, 17.		<i>septemPLICATA</i> Mühlf. xiv, 58.	
sanctæmarthæ Pils. xiv, 161.	45	<i>septenarius</i> Brug. = <i>Subulina</i> .	
santacruzii Orb. x, 16.		<i>sepulcralis</i> Poey. xi, 49.	30
santanensis Pfr. = <i>Opeas</i> .	5	<i>serenus</i> Ph. xi, 285.	44
sanctipauli Iher. & Pils. xiv, 123.	5	<i>seringi</i> Mich. J. de C., 1862.	
<i>sandysii</i> Prime, 1859.		<i>serotinus</i> Morel. xi, 293.	45
sangoæ Tschud. x, 45.	21	<i>serperastrum</i> Say xii, 37.	47
<i>sarcinosus</i> Pfr. vii, 196.		<i>serperastrus</i> Say xii, 38.	47
sarcochilus Pfr. xi, 80.	32	<i>serratus</i> Pfr. xi, 218.	41
sarcochrous Pils. xi, 93.	32	<i>serresi</i> Math. = <i>Rillyia</i> .	
sarcodes Pfr. xi, 56.	30	<i>servaini</i> Euth. xiii, 30.	53
sargi C. & F. xii, 65.	48	<i>sexdentatus</i> Auct. xiv, 60.	
<i>saturanus</i> Pfr. xii, 144.	62	<i>sexdentatus</i> Spix xiv, 59.	
saturnus Pfr. xii, 153.	62	<i>sexfasciatus</i> Schauf. xi, 259.	
savesi Cr. xiii, 33.	53	<i>sextonus</i> Lam. 1804 = <i>Bythinia</i> .	
saxtoni Lay. xiii, 65.	54	<i>shongii</i> Less. xiii, 22.	53
<i>sayi</i> Pfr. xiii, 8.	51	<i>shuttleworthi</i> Alb. xii, 201.	65
scaber Brug. = <i>Melania</i> .		<i>siamensis</i> Redf. = <i>Ganesella</i> .	
scabiosus Sowb. x, 142.	24	<i>siculus</i> Brug. = <i>Limnæa</i> .	
scabrellus Anth. xiv, 62.		<i>signata</i> Spix x, 107.	16
scalaricosta Morel. x, 132.	24	<i>signifer</i> Pfr. xi, 210.	41
scalariformis Brod. x, 169.	25	<i>sileni</i> Beck (<i>Pelek.</i>) x, 66.	
scalarinus Gundl. = <i>Melaniella</i> .		<i>sileni</i> Lam. x, 114.	
SCALARINELLA Doer. xiv, 66.	57		
scalarioides Ph. x, 154.	25		
scarabæus Brug. = <i>Pythia</i> .			

<i>similaris</i> Moric. xi, 233.	42	<i>spixii</i> Bk. (Anost.) xiv, 106.	
<i>similis</i> Brug. = Pupa.		<i>spixii</i> P. & M. x, 175.	
<i>simoni</i> Jouss. xiv, 7.		<i>spixii</i> Rve. x, 59.	
<i>simplex</i> Bk. xi, 38.		<i>spixii</i> Wagn. (1827) x, 55.	21
<i>simplex</i> Cr. xiii, 56.	54	<i>spixi</i> Orb. (Odont.) xiv, 67.	70
<i>simplex</i> Fult. (Amphi.) xiii, 222.		<i>spixi</i> Pfr. x, 55.	21
<i>simplex</i> Hupe xi, 72.	31	<i>splendidus</i> Dh. = Rillyia.	
<i>simplex</i> Jonas viii, 34.		<i>sporlederi</i> Pfr. xii, 66.	48
<i>simpliculus</i> Pfr. x, 176; xiv, 137.	26	<i>sporadicus</i> Orb. xi, 67.	30
<i>SIMPULOPSIS</i> Bk. xii, 212.	66	<i>sporadicus</i> Rve. xi, 273.	
<i>simrothi</i> Reib. xi, 117.	34	<i>spretus</i> Phil. x, 167.	
<i>simula</i> Morel. xii, 219.	67	<i>spretus</i> Rve. viii, 16.	
<i>Simulopsis</i> Gray xii, 212.		<i>squamulatus</i> C. & J. x, 34.	
<i>sinensis</i> Bs. xiii, 190.		<i>stagnalis</i> Brug. = Limnæa.	
<i>singularis</i> Morel. (Plac.) xiii, 58.	54	<i>stearnsianus</i> Pils. xiv, 92.	
<i>singularis</i> Pfr. (Drap.) xiv, 14.		<i>stearnsii</i> Dall. xiv, 103.	
<i>sinistrorsa</i> Dh. xiv, 15, 283.		<i>steerei</i> Pils. xiv, 140.	28
<i>sinistralis</i> Rve. xiii, 232.		<i>stelzneri</i> Dhn. x, 180.	26
<i>sinistra</i> Müll. xii, 147.		<i>stelzneri</i> Doer. xiv, 67.	
<i>sinistrorsa</i> Cr. xiii, 40.	53	<i>stenacme</i> Pfr. x, 182; xiv, 137.	26
<i>sinistrorsus</i> Dh. xiv, 15, 283.	71	<i>stenaeme</i> x, 182.	
<i>sinistrorsus</i> (Bulimus) Serres, 1858		<i>stenogyroides</i> Gupp. xi, 49.	30
= Clausilia.		<i>Stenostoma</i> Spix. x, 96; xiv, 36.	
<i>sinistrorsus</i> Tate = Pupoides.		<i>STENOSTYLUS</i> Pils. xi, 313.	49
<i>sinuata</i> Alb. x, 116.	16	<i>stigmaticus</i> Ph. xi, 281.	44
<i>sisalensis</i> Morel. xii, 28.		<i>stilbe</i> Pils. xiv, 145.	31
<i>smaragdinus</i> Rve. viii, 38.		<i>stolli</i> Mart. xii, 50.	47
<i>smithii</i> DaC. xi, 247.	43	<i>stramineus</i> Anct. xii, 12.	
<i>smithii</i> Fult. (Amphi.) xiii, 186.		<i>stramineus</i> Braz. xiii, 95.	55
<i>smithi</i> Kob. (Plac.) xiii, 66.	54	<i>stramineus</i> Gldg. xii, 13.	46
<i>snodgrassi</i> Dall. xiv, 150.	33	<i>strangei</i> Pfr. xiii, 87.	55
<i>solida</i> Say xii, 168.		<i>strebeli</i> Pils. xii, 128.	61
<i>solidulus</i> Brug. = Actæon.		<i>striata</i> Perry (Melania) xiv, 167.	
<i>solidus</i> Eth. (Plac.), xiii, 27.	53	<i>striata</i> Spix. (Pupa) xiv, 68.	
<i>solidus</i> Fult. (Amphi.) xiii, 229.		<i>striatellus</i> Bk. x, 179.	
<i>solidus</i> Pfr. viii, 8.		<i>striatellus</i> C. B. Ad. = Nothus	
<i>solidus</i> Pils. xiii, 9.	51	<i>conferta</i> .	
<i>solivagus</i> Rve. viii, 9.		<i>striatocostatus</i> Orb. = Melaniella.	
<i>solutus</i> Trosch. x, 133.	24	<i>striatulus</i> Brug. = Bucc. striatulum	
<i>SONORINA</i> Pils. xi, 155.	36	Müll.	
<i>sordidus</i> Dh. xi, 13.		<i>striatulus</i> Dall. xi, 143.	35
<i>sordidus</i> King x, 55.		<i>striatulus</i> Lam. 1804 = ?Hydro-	
<i>sordidus</i> Less. x, 163.	25	<i>biidæ</i> .	
<i>souverbianus</i> Gass. = Opeas.		<i>striatulus</i> Sowb. x, 162.	25
<i>souvillei</i> Morel. xiii, 48.	54	<i>striatus</i> Brug. = Achatinidæ.	
<i>sowerbeyii</i> Swains. xiv, 31.		<i>striatus</i> King x, 179.	26
<i>sowerbyi</i> Pfr. xi, 174.	36	<i>strictus</i> Poey = Stenogyra.	
<i>sowerbiana</i> Fér. (Helix), xiv, 95.		<i>strigata</i> Mildff. xiii, 132.	
<i>sowerbyana</i> Bk. xiv, 95.		<i>strigatus</i> Pils. xiii, 46.	54
<i>speciosus</i> Pfr. x, 70.	17	<i>strigatus</i> Rve. xi, 231.	
<i>spectatus</i> Rve. xi, 213.	41	<i>strigatus</i> Sowb. xi, 228; xiv, 158.	42
<i>spectrum</i> Alb. x, 119.	16	<i>strigosus</i> Mart. xiii, 152.	
<i>spectrum</i> Bk. = Obeliscus.		<i>stroboli</i> Doer. xiv, 99.	
<i>spenceri</i> Tate xiii, 6.	51	<i>struthiolaris</i> Mke. x, 103.	
<i>spiculatus</i> Morel. x, 144.	24	<i>stubeli</i> Mart. x, 42.	6
<i>spirifer</i> Gabb. xi, 158.	36	<i>studer</i> Pfr. xi, 246.	43
<i>SPIXIA</i> Pils. & Van. xiv, 67.	57	<i>stutchburyi</i> Pfr. xiii, 88.	55

- styliker Bk. x, 156.
 stylus Bk. Ind. p. 62.
subantiquatus Bk. xii, 2.
 subcactorum Pils. x, 145.
 subcarinatus Pfr. viii, 19.
 subconcolor Mart. xiii, 212.
subconoidalis Anc. xi, 109.
 subcylindricus Math. 1842 = Rillyia.
 subeffusus Kob. (Plac.) xiii, 39. 53
 subeffusus Ph. xi, 217. 41
subfasciatus Ckll. xii, 3.
 subfasciatus Pfr. xi, 32. 28
 subfloccosus Pils. xii, 90. 48
 subglancliformis Mss. x, 80; xiv. 127. 17
 subglobosus Lea vii, 204.
 subinterruptus Pfr. xi, 244.
 subirroratus DaC. xiv, 163.
 subjussienii Pils. xi, 26.
 sublabeo Anc. xii, 203.
 sublævis Pils. x, 111.
 submariei Sowb. xiii, 55.
 subpellucidus Sm. xi, 288.
 sulphureus Pfr. xii, 76; xiv, 162. 48
 subplicata Pfr. x, 199; xiv, 130. 18
 subprotractus Pils. xiv, 155.
 subpulchella Pils. xii, 141.
 subroseus Ph. xi, 284.
 subsemiclausus Pet. xi, 238.
 subsenilis Gass. xiii, 53.
 subsexdentatus Doer. xiv, 85.
 subsimilaris Pils. xi, 223.
 subsordida Pils. (Helix) x, 163.
 subspirifer Mab. xi, 162.
subsuctatus Mss. xiv, 173.
 subtenuis Pils. xi, 76.
subtropicalis Doer. xi, 67.
 subtuszonata Pils. xii, 95.
subula C. B. Ad. = Euspiraxis pro-
 cera.
 subula Pfr. = Opeas.
subulatus Cr. xiii, 63.
 subunicolor Fult. (Amphi.) xiii, 222.
 subunicolor Mart. xii, 59.
 subventricosus DaC. xiv, 156.
 succinctus Rve. viii, 17.
 succinea Pils. xiv, 160.
succineoides Mart. x, 84.
 succineus Brug. = Succinea.
 succinoides Pet. x, 84; xiv, 128.
 sufflatus Gld. xi, 136.
 suffusus Rve. = Limicolaria.
sulcatus Reib. xi, 101.
 sulcosus Pfr. xii, 48.
 sulculosa Fér. xii, 214.
sulfuratus Mart. xiii, 143.
- 25 *sulfureus* Mart. xii, 77. 48
sulphuratus H. & J. xiii, 143.
 sultana Dillw. xii, 188. 65
 24 *Sultana* Shutt. xii, 186.
 sultanus Lam. xiii, 154.
 sumatranus Mts. xiii, 218, 228.
 sumbaensis Fult. xiii, 208.
 superbis Fult. (Amphi.) xiii, 223.
superbus Jonas x, 43.
 41 *superfasciatus* Gass. xiii, 40. 53
 superstriatus Sowb. x, 91. 19
 28 surgillatus Pfr. xiv, 53.
 48 suspectus Mart. xiii, 213.
 swainsoni Pfr. x, 103. 15
 swiftianus Pfr. = Stenogyra.
 swinhoeana Pils. xiv, 19.
 43 swinhoei Pfr. xiv, 19.
 62 sylbeticus Rve. xiii, 189.
 28 *sylvanus* Brod. viii, 48.
 65 *sylvaticus* Wagn. = Neobeliscus.
 16 SYNDROMUS Pils. xiii, 184.
 54 *syntodes* Ads. x, 199.
- T
- 42 *taeniatus* Ph. xi, 291.
 61 taeniolus Nyst. x, 57. 21
 44 tauneri Dall. xi, 113; xiv. 152. 34
 42 tanouensis Cr. xiii, 66. 54
 54 tapadoides Ph. xi, 317. 49
 taquinensis Pfr. x, 81. 17
 41 tarmensis Ph. x, 60. 21
tasmanicus Pfr. xiii, 18. 51
 36 *tateanus* Gupp. xi, 80.
Tutor Jouss. x, 43.
 31 tatutor Jouss. x, 47. 21
 taunaisii Fér. x, 48. 21
 49 *taunaysii* Orb. x, 49.
 taylorianus Rve. x, 90; xiv, 132. 19
taylorioides Mill. x, 90.
 54 tehioensis Kob. xiii, 38. 53
 TEMESA Ads. x, 134.
 tenellus Bk. Ind. p. 63.
tenellum Dall. Paet. xiii, 234.
 47 tener Mts. xiii, 136.
 41 tenuicostatus Matheron.
 45 tenuilabris Pfr. xi, 310. 45
 tenuiplicatus Pfr. = Macroceramus.
tenuis Ant. xiv, 172.
tenuis Dkr. xi, 65.
 18 tenuissimus Orb. xi, 64, 320. 30
 35 *tenuissimus* Sm. xi, 49.
 tenuistriatus Sowb. 1846 = Rillyia.
 tepecensis Mart. xii, 84. 48
 47 terebella C. B. Ad. = Opeas.
 66 terebellatus Lam. = Niso.
 terebellum Brug. = Pyramidella.

- terebralis Brug. = Melania.
 terebralis Pfr. x, 142. 24, 71
 terebra Matheron, 1832.
 terebraster Lam. = Stenogyra.
 teres Meek. & Hayd. 1856.
 teres Oliv. 1801 = Clausilia.
 terrestris Spix. x, 22.
 tessellatus Sh. xi, 167. 37
 tetensii Dkr. x, 77. 17
 teysmanni Mss. xiii, 134.
 thammianus Mts. x, 14. 4
 thamoicus Auct. xi, 18, 24.
 thamoicus Orb. xi, 19; xiv, 142. 28
 THAUMASTUS Alb. 19
 Thaumastus Auct. xi, 127.
 theobaldianus Bs. xiii, 180.
 theobaldianus Gass. xiv, 18.
 theobaldi Nev. xiii, 180.
 thioensis Cr. xiii, 38. 53
 thompsoni Pfr. x, 53. 21
 thoreyi Bk. xi, 65.
 tigrina Les. xii, 237. 69
 tigrinus DaC. xi, 231. 42
 tigris Brod. xi, 275. 44
 tobagoensis Pils. x, 30; xiv, 123.
 tornatilis Brug. = Actæon.
 tomigera Moric. (Helix) xiv, 106, 108.
 tomigeroides Moric. xiv, 108.
 TOMIGERUS Spix. xiv, 105. 57
 Tomogeres Montf. xiv, 109.
 Tomogerina Jouss. xiv, 114.
 torallyi Orb. xi, 278. 44
 torticollis Oliv. = Clausilia.
 tortoratus Doer. x, 182.
 tortuganus Dall. xi, 117.
 torulosus Brug. = Melaniidæ.
 totonacus Streb. xii, 71. 48
 translucens Brod. xii, 89. 48
 transparens Rve. xi, 73. 31
 tribalteatus Rve. xi, 246. 43
 trichodes Orb. xi, 92; xiv, 148. 32
 tricineta Mart. xii, 120. 61
 tricingulatus Ant. xii, 88. 48
 tricolor Pfr. x, 87; xiv, 131. 19
 tricolor Schauf. xi, 259.
 trifasciatus Brug. (Amphi.) xiv, 4.
 trifasciatus Gmel. xiv, 3.
 trifasciatus Lch. xi, 38.
 trifracta Pils. xii, 115. 61
 trigonostomus Jonas xi, 256. 43
 trilineata Q. & G. xiii, 8. 51
 trimarianus Mart. xii, 62. 47
 trinitarius Sm. xii, 19.
 tripictus Alb. xii, 69. 48
 tristis Jay xi, 301 = Lanistes purpureus.
 tristis Pfr. xi, 301.
 trivittatus Mss. xi, 245. 43
 trizonalis Fér. xiv, 4.
 tropicalis Morel. xii, 85. 48
 troscheli Ph. xi, 314. 49
 trullisatus Sh. xii, 191. 65
 truncatus Brug., Enc. Meth., p. 310 = Limnæa truncatula Müll.
 truncatus (Bulimus) Pfr. = Eucalodium martensi Strebel xv, 19.
 trujillensis Ph. xi, 272. 44
 tryoni C. & F. xii, 75. 48
 tryoni Pils. (Simp.) xii, 218. 66
 tryoni Pils. (Amphi.) xiii, 196.
 tschudii Trosch. x, 146. 24
 tserni Lub. x, 198.
 tubulatus Morel. x, 132. 24
 tudiculatus Mart. xiv, 55, 170.
 tumida Gmel. (Helix) xi, 76.
 tumidulus Pfr. x, 168. 25
 tumulorum Doer. xiv, 81.
 tupacii Orb. xi, 19; xiv, 142. 28
 turbinatus Lam. = Rissoidæ.
 turbinatus Lea = Limicolaria.
 turbinatus Pfr. (Tomig.) xiv, 107.
 turgidula Gass. xiv, 16. 71
 turgidulus Desh. 1864 = Assiminea.
 turgidulus Sandb. 1870-75 = Pet-raeus.
 turgidus (Bulimus) Pse. 1864 = ? Partula.
 turneri Pfr. xiii, 75. 55
 turricula Brug. = Paryphostoma.
 turricula Pfr. = Macroceramus.
 turrita Ant. (Pupa) xiv, 68.
 turrita Kob. (Plac.) xiii, 41, 46. 54
 turritella Orb. x, 193.
 turritellatus Bk. x, 183; xiv, 139. 26
 turritus Brod. x, 135. 24
 turritus Grat. 1845 = Hydrobiidæ.
 turnix Gld. xiv, 133. 8

U

- uber Mke. xiv, 173.
 uber Pfr. viii, 41.
 ucayalensis Cr. xi, 63. 30
 uhdeana Mart. xii, 129. 61
 uhdeanus Mart. xii, 83. 48
 uliginosus Heimb. xiii, 91. 55
 ulloæ Ph. x, 167. 25
 umbilicaris Soul. x, 130. 24
 umbilicatus Pils. x, 131.
 umbilicatus Kob. xiii, 236. 54
 umbilicatus Mill. x, 172. 26
 umbraticus Rve. xi, 52; xiv, 144. 30
 undata Brug. xii, 105. 61
 undulata Gldg. xii, 106. 61

- undulatum* Leh. (Carychium), x, 65.
undulatus Bk. x, 114.
undulatus Gldg. xii, 22. 46
undulosus Mart. xii, 36. 47
uniangulata Fér. xi, 191.
unicarinatus Lam. = *Macroceramus*.
unicolor Pfr. xi, 167. 37
unicolor Phil. x, 59.
unicolor Sowb. xi, 53. 30
unidentatus Sowb. (Partula) x, 9. 4
unifasciatus Sowb. xi, 116. 34
uranops Pils. xi, 188. 39
urceus Brug. = *Ampullaria*.
urinarius Poey xi, 50.
uruguayensis Pils. xi, 69.
ustulatus Jay viii, 52.
ustulatus Mke. = *Achatinidæ*.
ustulatus Sowb. xi, 104. 33
uva Brug. = *Cerion*.
- V
- vadum* Pils. xi, 165. 37
valenciennesii Pfr. x, 21. 5
vanattai Pils. xi, 223. 42
vapores Mss. xiv, 173.
variabilis Hartm. = *Cochlicella*.
varia Mart. xii, 144. 61
varians Brod. xi, 274. 44
varians Küst. xi, 16.
varians Mlldff. xiii, 183.
varicosus Pfr. xii, 61. 47
variegata Pfr. (Succinea) xi, 6. 27
variegata Raf. xii, 168.
variegata Silv. x, 103.
variegatus Brug. = *Actæon*.
variegatus Pfr. xi, 5. 27
vegetus Gld. xi, 143.
velatus Brod. viii, 12.
velutinohispidus Moric. xi, 76. 31
venetiensis x, 42.
venezuelensis Mts. xi, 312. 45
venezuelensis Nyst x, 41. 6
venezuelensis Pfr. (Tomig.) xiv, 109.
venosa Humph. xii, 243.
ventanensis Pils. x, 189. 26
ventricosa Kob. xiii, 45. 54
ventricosus Brug. viii, 10.
ventricosus Para. xi, 279.
ventrosulus Mlldff. xiii, 186.
ventrosus Reib. xi, 169. 33
venustus Bk. xii, 2.
venustus Reib. xi, 105.
veranyi Pfr. x, 83. 18
verecundus Rve. viii, 35.
vermetus Anth. xiv, 173.
vermiculatus Beck xiv, 55.
vermiculatus Dall xi, 112.
- vermiculatus* Mke. xiv, 55.
vermiculus Meek & Hayden.
verreauxianum Hupe (*Anostoma*)
 xiv, 113.
verrucosus Pfr. xi, 102. 33
versicolor Brod. xi, 16; xiv, 140. 28
versicolor C. & J. xiv, 172.
versicolor Fult. xiii, 229.
veruculum Morel. x, 137. 24
veseyianus Dall xi, 160. 36
vesicalis Gld. xi, 136.
vesicalis Pfr. xi, 69. 31
vespertinus Pfr. xi, 269. 44
vesperus Jous. = *Achatinidæ*.
vestalis Alb. xi, 290. 45
vexillum Brod. xii, 87. 48
vexillum Brug. xii, 167.
vexillum DeK. xii, 164. 63
vexillum Wood xi, 274; xiv, 159. 44
vicarius Fult. xii, 200. 65
vicarius Fult. (Amphi.) xiii, 191.
victor Pfr. x, 82. 18
viequensis Pfr. = *Pineria*.
vimineus Mor. xii, 95. 49
vinentina Sm. xii, 219. 66
vincentinus Pfr. xii, 17. 46
violaceus Mss. xi, 207. 41
virescens Mart. xiii, 217.
virescens Sw. xiii, 171.
virgatus Jay. viii, 48.
virgatus Spix. xiv, 37.
virginalis Morel. x, 157.
virginalis Pfr. xi, 309. 45
virgineus Brug. x, 7.
virgineus L. xii, 162; xiv, 165. 63
virgineus Lea viii, 36.
virginia Blv. xii, 163. 63
virgo Lea xi, 305. 45
virgulata Fér. xii, 24.
virgulatus Binn. xii, 28.
virgultorum Morel. x, 168; xi, 294. 45
viriatum Morel. x, 54. 21
viridescens Mab. xiii, 179.
viridis Mlldff. xiii, 183.
viridostriatus Lea vii, 178.
visendus Hid. xi, 267. 44
vitiensis Grt. xiii, 110. 56
vitreus Spix. xiv, 60.
vitrinoides Rve. xii, 222.
vittata Humb. xi, 292.
vittata Sw. xii, 166.
vittatus Brod. x, 156.
vittatus Spix. xii, 91. 49
voithianus Pfr. xi, 322. 25
vugatus Pfr. Cless. xiii, 111.
vulgaris Moric. x, 103.

W

- wagneri* Grat. viii, 53.
wagneri Pfr. xiv, 68, 70.
walli Cox = Opeas.
wallisianus Mss. xii, 158.
weddelli Hupe xi, 21.
weyemberghii Doer. xiv, 101.
weyenberghi Doer. xiv, 100.
williamsi Pfr. x, 146.
willi Dohrn xiv, 44.
wilsoni Pils. x, 39.
winberi Nev. xiii, 137.
winteri Pfr. xiii, 137.
wolfi Reib. xi, 115.
woodianus Lea. vii, 206.
woodianus Pfr. vii, 210.
woodwardi Pfr. x, 151.
wrzesniowskii Lub. xii, 198.

X

- xantholeucus* Mart. xii, 44. 47
XANTHONYX F. & C. xii, 232.
xanthostoma Orb. xi, 196. 41
xanthostomus Wieg. xi, 131.
xantusi W. G. B. xi, 148. 36
XENOTHAUMA Fult. xiv, 134. 22
xiengensis Morl. xiii, 194; xiv, 169.

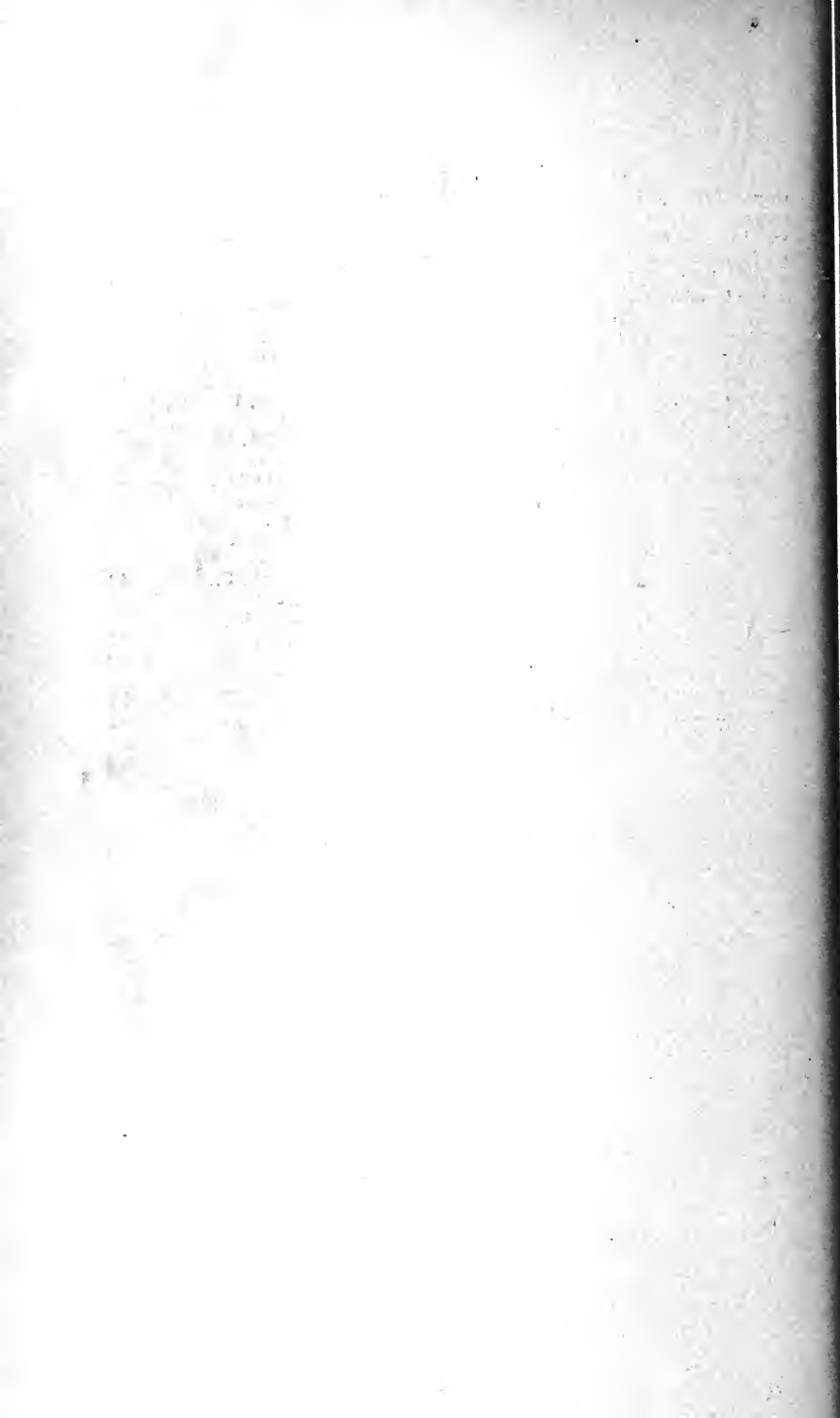
xiengensis Fisch. xiv, 169.

Y

- yanamensis* Morel. x, 54. 21
yatesi Pfr. xiii, 202. 65
yungasensis Orb. xi, 203. 41
yporauganus Iher. xiv, 120. 5

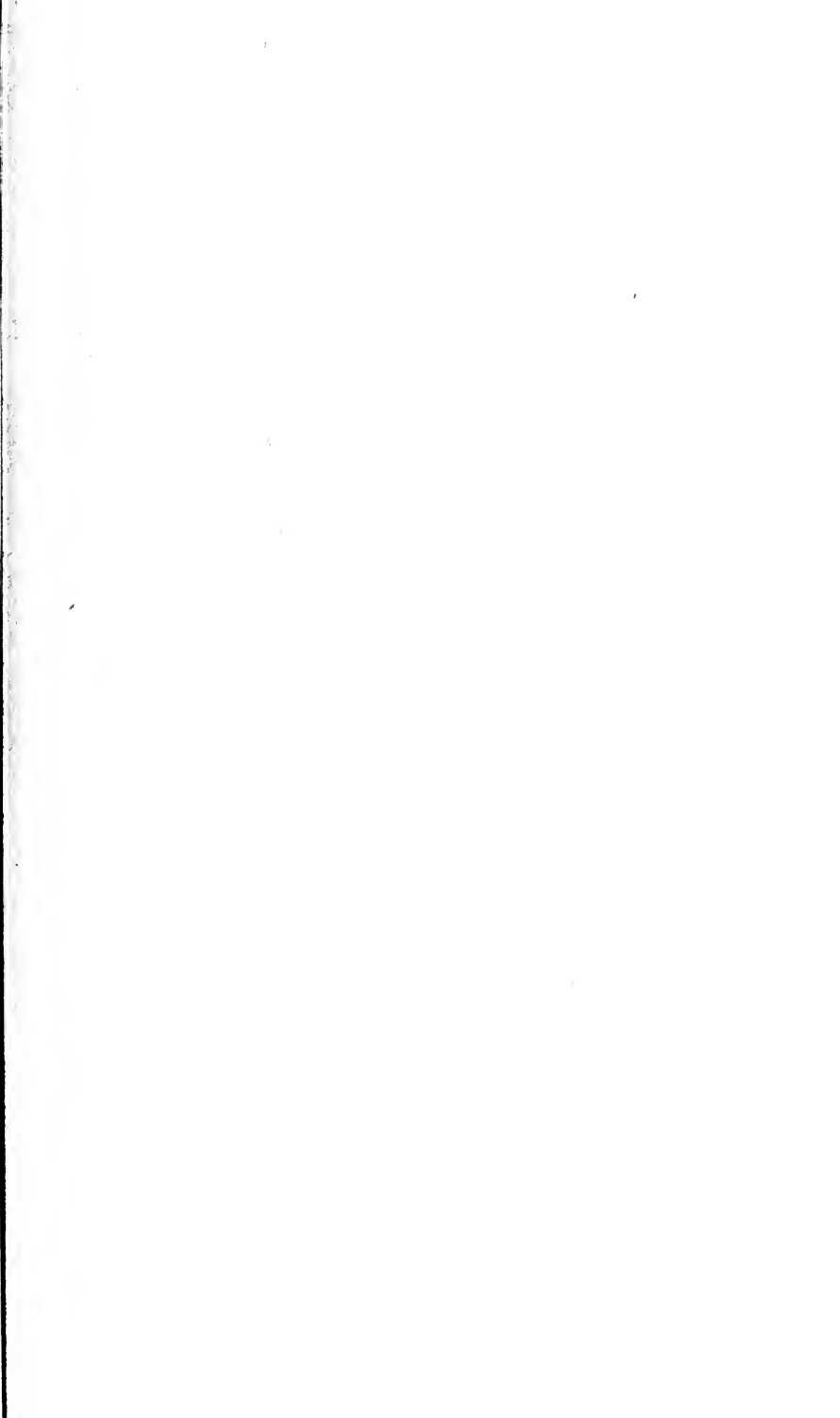
Z

- ZAPLAGIUS* Pils. xi, 185. 38
zebra Auct. xii, 106, 108, 110, 114.
zebra Cous. x, 54.
zebra Hass. xiii, 201. 34
zebra Müll. xii, 104.
zebra Perry = *Achatina*.
zebra Shuttl. xii, 101. 61
zebra Spix. xii, 95. 49
zebrinus Pfr. xiii, 199.
zeledoni Dall. xii, 32.
zhorquinsis Ang. xii, 31. 46
ziezac DaC. xi, 212. 41
ziebmanni Rve. xii, 38.
ziegléri Pfr. xii, 39. 47
ziegléri Rve. xii, 76. 48
zigzag Lam. xii, 136.
zonifera Streb. xii, 123. 61
zoographicus Orb. xi, 197. 41









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